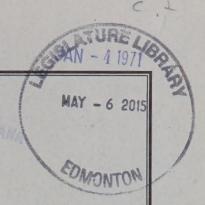
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ANNUAL REPORT

OF THE

# Department of Health

**INCLUDING** 

## **Vital Statistics Division**

PROVINCE OF ALBERTA

1967

PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON, ALBERTA

Printed by L. S. WALL, Printer to the Queen's Most Excellent Majesty

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1 9 6 9

November 30, 1968.

TO HIS HONOUR,

J. W. GRANT MacEWAN,

Lieutenant Governor of the Province of Alberta.

SIR:

I have the honour to transmit herewith the Annual Report of the Department of Health for the year 1967.

I have the honour to be, Sir,

Your obedient Servant,
J. DONOVAN ROSS, B.A., M.D.,
Minister of Health.



November 30, 1968.

## TO THE HONOURABLE DR. J. DONOVAN ROSS, MINISTER OF HEALTH,

Administration Building, Edmonton, Alberta.

SIR:

I have the honour to submit herewith the Forty-Ninth Annual Report of the Department of Health.

I have the honour to be, Sir,

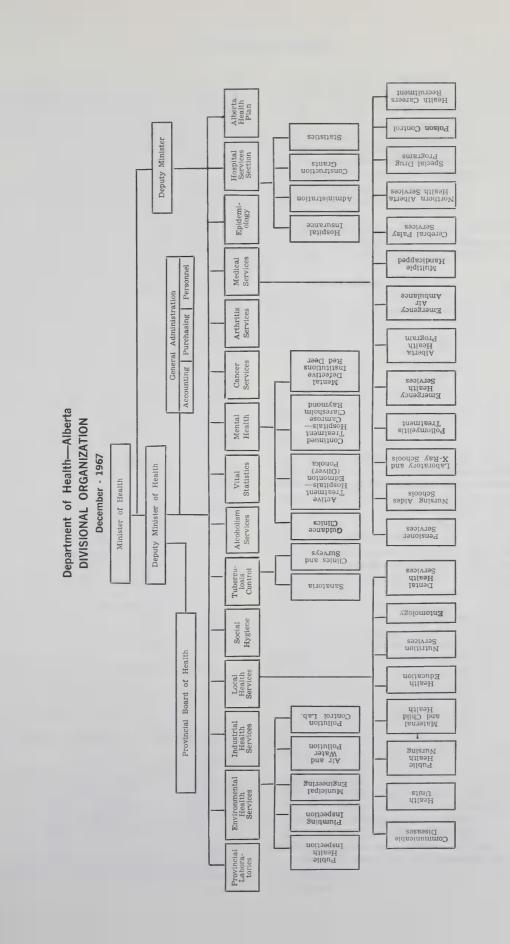
Your obedient Servant,
P. B. Rose, M.D.,
Deputy Minister of Health.

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#### PROVINCIAL BOARD OF HEALTH

The Provincial Board of Health met on four occasions during 1967. Some of the major items considered during these meetings are reviewed in this report.

Dr. R. D. Stuart who as Provincial Bacteriologist has been a member of the Provincial Board of Health resigned due to illness in April, 1967. He was succeeded by Dr. J. M. S. Dixon. Dr. M. G. McCallum who was on sick leave for the latter portion of 1966 retired on October 1st, 1967 and was replaced as Chairman by Dr. P. B. Rose who, along with Mr. H. L. Hogge, member, completed the Board's membership throughout the year. Mr. L. E. Stewart, Chief Public Health Inspector, acted as Secretary.

Regulations Amended During the Year

Alberta Regulation 230/67 (O.C. 1021-67). Amendments to Regulations for the Control of Communicable Disease. These changes affected the isolation, quarantine and special measures for Meningitis, Viral or Aseptic, and for Scarlet Fever and Streptococcal Sore Throat to ensure in each case that reasonable control methods are provided.

Alberta Regulation 231/67 (O.C. 1022-67). Amendments to Regulations for the Control of Air Pollution. These amendments clarify certain sections of the Regulations.

Alberta Regulation 232/67 (O.C. 1023-67). Amendments to Regulations Respecting Food and Drink. New sections have been added to the regulations to provide that all perishable foods on food handling premises be kept under refrigeration and also to provide that frozen foods be frozen and stored at proper temperatures.

The Board received information during the year that certain persons suffering from or suspected to be suffering from communicable forms of tuberculosis were refusing treatment or examination and thus endangering other persons. After proper investigation in each case, orders were issued under authority of the Communicable Disease Regulations covering the removal of persons concerned to hospitals and sanatoria for treatment or examination. Three such orders were issued during 1967 compared with four in 1966, eight in 1965, thirteen in 1964 and ten in 1963.

Eight persons, employees of the Provincial Department of Health and Municipal Nurses, were appointed to be Executive Officers of the Provincial Board of Health during 1967. There was one cancellation and at the year's end 45 such appointments were in effect.

During the year 128 nurses employed by Health Authorities throughout the Province were certified by the Provincial Board of Health to be capable of performing inoculations and vaccinations in accordance with Section 41 of The Public Health Act. Eleven authorizations were returned. At the year's end 459 such authorizations were in effect compared with 342 at the end of 1966.

In addition to the regulation changes referred to earlier in this report, the Board gave consideration to several other parts of its regulations with a view to possible changes. These included the regulations in respect to swimming pools, fluid milk, mattresses and upholstery, funerals and preparation of dead bodies for interment, use

of pesticides, bathing beaches and feed lots. Also considered were proposals for regulations in respect to housing and in respect to the provision of lunch rooms and toilet facilities at construction sites. In some instances the reviews progressed sufficiently so that proposals for changes in regulations will probably be submitted to the Lieutenant Governor in Council early in 1968.

The Board continued to be interested in all aspects of air pollution and stream pollution. Discussions of items in these fields occupied portions of the various Board meetings. Instructions which had been issued to the Cities of Calgary and Red Deer in 1966 requiring additional sewage treatment were followed up in 1967. The Board also considered the need for improved sewage treatment by the Towns of Cardston and Rocky Mountain House and the townsite of Banff.

During the year 1967 a "Solid Wastes Disposal Study Committee" was established by Order in Council. This committee which includes representatives of the Departments of Health and Public Works, Cities of Calgary and Edmonton and Urban and Rural Municipal Organizaions is studying waste disposal problems. The Provincial Board of Health is of course interested in the work of this committee and will be very interested in such recommendations as may be made by the committee.

The Alberta Advisory Committee on Pollution Control was also established by Order in Council during the year. This committee is advisory to the Minister of Health in all matters connected with pollution control. Naturally, its activities are also of interest to the Provincial Board of Health.

Throughout the year 1967 the Provincial Board of Health gave consideration to many other matters in the field of public health. These included provision of meat inspection, catering in schools, the sale of unwrapped bread, filtration systems at swimming pools, burning of old automobile bodies, the operation of feed lots and the use of hydrocyanic acid gas for the disposal of culled newly hatched chicks. The Board gave direction in these to Local Boards of Health and to the various Divisions of the Department of Health for the purpose of promoting an overall program which would result in improved standards of health throughout Alberta.

#### LEGISLATION PASSED DURING THE YEAR

The Cancer Treatment and Prevention Act, 1967 (Chapter

This Act repealed and replaced The Cancer Treatment and Prevention Act, chapter 35 of the Revised Statutes but in addition to being a revision of that Act, a number of new provisions were added relating to the establishment of Provincial Cancer Hospitals.

The Lieutenant Governor in Council was given power to establish a corporation called the Provincial Cancer Hospitals Board which is authorized to own and operate cancer hospitals and out-patient clinics.

This Act came into force on April 11, 1967.

The Department of Health Act (Chapter 27)

This Act repealed and replaced the Department of Public Health Act, chapter 256 of the Revised Statutes. It is essentially a revision of that Act with the one significant exception that by this Act the Department is divided into two sections, one for Hospital Services and the other for Health Services, and provision is made for the appointment of two deputy ministers, one Deputy Minister of Health, the other, a Deputy Minister of Hospital Services.

This Act came into force on April 11, 1967.

#### The Alberta Health Plan Act (Chapter 28)

The purpose of this Act is to enable all residents of the Province regardless of Income level to obtain for themselves and dependants basic health services and optional health services under a voluntary plan to provide prepaid or insurance coverage for those services. The Alberta Health Plan replaced the program under the Treatment Services Act consisting of The Alberta Medical Plan and The Alberta Extended Health Benefits Plan. Under this new legislation basic health services are extended to include certain dental, optometric, podiatric and osteopathic services. Other services will be "optional Health services" and will generally consist of what were included in Extended Health Benefits under the former program. The Minister of Health or an appointed carrier acting as his agent issues individual standard contracts for basic health services and optional health services. Only the standard contracts will be eligible for subsidies under the Act. With certain minor exceptions all group and individual contracts issued by private carriers and all self-insurance plans that provide coverage for any basic health services are required to provide coverage for at least all basic health services.

A group contract for any optional health services may be issued only for a group that also has coverage for basic health services. And by the same token, a self-insurance plan can provide coverage for optional health services only if it provides coverage for basic health services.

This Act, except section 25, came into force on April 11, 1967.

Section 25 comes into force on July 1, 1967.

#### The Health Unit Act Amendment Act (Chapter 29)

Section 17, subsection (3) was amended by striking out the word "annual" and by substituting the word "latest", and by striking out the words "in the calendar year preceding that in which the fiscal year begins".

Section 18b, subsection (3) was amended, first by striking out the word "annual" and by substituting the word "latest", and by striking out the words "in the calendar year preceding that in which the fiscal year begins".

This Act came into force on March 30, 1967.

## The Alberta Hospital Association Act Amendment Act (Chapter 33)

Section 3 was amended by renumbering the section as subsection (1) which in turn was amended by the addition of a new clause (g) authorizing the Alberta Hospital Association to consent to be designated as an approved carrier under the Alberta Health Plan and as an approved carrier to act as the agent of the Minister of Health and to do any act that it is permitted or required to do under that Act or the regulations. The section was further amended by the adddition of a new subsection (2) defining the words "other health services".

Section 5 was amended by striking out the words "prepaid hospital care" and by substituting the words "prepaid hospital services or other health services or both".

This Act came into force on April 1, 1967.

#### The Human Tissue Act (Chapter 37)

This Act gives a person the authority to direct that his body or any specified part or parts be used after his death for therapeutic, medical education or medical research purposes. A person may make this a binding direction if he is at least 18 years of age or over, by directing this to be done either in writing at any time or orally in the presence of at least two witnesses during his last illness.

Provision is also made for the body of a person to be given over for similar purposes, at the instance of certain other persons who may have custody of the body.

The Corneal Transplant Act is repealed. This Act came into force on March 30, 1967.

## The Medical Services (Alberta) Incorporated Act Amendment Act (Chapter 50)

These amendments give Medical Services Incorporated additional powers to enable it to participate as an approved carrier under The Alberta Health Plan Act for the purpose of providing coverage for "basic health services" which under that Act includes oral surgery performed by a dental surgeon, refractions performed by an optometrist, and the services of podiatrists and osteopathic practitioners.

Section 2 was amended by adding a new clause (e) defining "other health services".

Section 3 was amended by minor changes to clauses (a), (b), (e) and (g) to include references to "other health services" and in the case of clause (b) to include a reference to "persons who provide other health services".

Section 4 was amended as to clause (f) by adding a reference to "other health services".

A new clause (f1) gives the corporation the power to consent to being designated as an approved carrier under The Alberta Health Plan Act and as an approved carrier to whatever it is empowered or required to do pursuant to that Act.

Section 5 undergoes two minor amendments to include references to "other health services".

Section 7 was amended by the re-enactment of subsection (1) to raise the number of the membership of the board of directors from five to seven and to provide that the members shall represent certain specified interests.

Section 8 was amended, firstly as to clause (f) by adding a reference to other persons who provide health services and secondly, by the re-enactment of clause (j) to remove the limit of \$25.00 which may be paid as a fee to directors for attending meetings of boards.

Sections 9 and 10 were amended by adding a reference to a person who provides "other health services".

Section 12 was amended by adding a reference to "other health services".

This Act came into force on April 11, 1967.

#### The Nursing Homes Act Amendment Act (Chapter 57)

A new section 7a was added allowing the Minister to review any nursing home program a board has under consideration, if so requested by the board and to give such directions to the board for the implementation of the program as he considers proper where he concludes that the program's implementation is being delayed inordinately or requires different features.

Section 12, subsection (1) was amended by the re-enactment of clause (b) to revise the residence requirements.

This Act came into force on March 30, 1967.

#### The Psychologists Act (Chapter 62)

This Act replaced and repealed The Psychologists Association Act, chapter 79 of the Statutes of Alberta, 1960. It places all psychologists under The Psychologists Association of Alberta with respect to professional conduct and discipline, whether or not they are members of the association. In addition, it effects a general revision of the repealed Act.

This Act came into force on July 1, 1967.

#### The Public Health Act Amendment Act (Chapter 63)

A new section 42 was added making it an offence for any person to manufacture, sell, give, distribute, have in his possession, administer to himself, or to any other person, L.S.D. or any other hallucinogenic drug unless the Minister has authorized the person, who must be a qualified medical practitioner, to administer a hallucinogenic drug to himself or any other person for the purposes of research.

This Act came into force on April 11, 1967.

## The Radiological Technicians Act Amendment Act (Chapter 69)

Section 12 was amended to exempt dental auxiliaries and dental hygienists from restrictions imposed by the Act, if they are acting under the direction and supervision of a duly qualified medical practitioner or a member of the Alberta Dental Association.

This Act came into force on March 30, 1967.

#### The Treatment Services Act Amendment Act (Chapter 85)

Section 2 was re-enacted, the definition of Minister remaining the same but new definitions being applied to the words "resident of a province" and "treatment services".

Section 3 was amended by striking out the words "a person and his dependants residing in the Province if such person" and by substituting the words "a resident of the Province and his dependants residing in the Province if such resident".

A new section 3a was added to enumerate some new circumstances under which the Minister may provide for part or all of the costs of necessary treatment services for a resident of the Province and his dependants residing in the Province.

A new section 7 was added giving the Lieutenant Governor in Council power to authorize the Minister to provide for part or all of the costs of treatment services to any class of residents in the Province specified in the order and in respect of any illness or condition which should also be specified in the order.

A new section 9 was added empowering the Minister to enter into agreements with any person or association of persons for the purpose of facilitating the provision of treatment services under this Act.

Sections 10 to 11c were repealed, effective on the commencement of the new The Alberta Health Plan Act.

Except as to the repeal of sections 10 to 11c, this Act came into force on March 30, 1967.

#### The Veterinary Surgeons Act Amendment Act (Chapter 90)

Section 9, subsection (3) was amended by re-enacting clause (b) to include a fine as a type of punishment which may be imposed in addition to suspension or expulsion or breaches against by-laws of the association. The section was further amended as to subsection (4) by adding after the word "suspended" the word "fined" and by adding after the word "suspension" the words "a fine".

Section 14 was amended by adding after the words "may suspend from practice" the words "or may fine".

Section 15, subsection (4) was amended by adding a new clause (c) which reads "who has been fined".

Section 16, subsection (3) was amended by adding a new clause (cl) giving a judge an appeal discretion to cancel, reduce or increase any fine which has been imposed.

This Act came into force on April 11, 1967.

In April, 1967, with the passage of the Department of Health Act, the name of the Department of Public Health was changed to the Department of Health.

Dr. M. G. McCallum retired as Deputy Minister after six years and Dr. P. B. Rose who had been acting Deputy Minister for one year became Deputy Minister of Health.

The following two new appointments were made:

Dr. W. Watt, M.B., Ch.B., D.P.H., Director Division of Local Health Services

Mr. Leo E. Marinier Director, Health Education Services Division of Local Health Services.

## DEPARTMENT OF HEALTH REVENUE AND EXPENDITURE FOR FISCAL YEAR ENDING MARCH 31, 1968

		Expenditure		Revenue
2401 Administration - General	\$	47,299.33	\$	
2402 Administration - General		260,919.61	-	3,100,92
2403 Epidemiology		14,566,90		0,200,02
2405 Vital Statistics		137,909,42		232.092.03
2408 Sundry Acts		703.65		202,002.00
2409 Civil Service Nurse		13.322.53		
2410 Alcoholism		561,285,22		4 205 71
2411 Health Services - Extension Program		1,224,926,43		4,305.71
2414 Communicable Diseases				2,571,785.45
2415 Health Units and Grants for Public Health Services		198,156.96		200 442 00
2416 Municipal Nursing Service		2,103,766.44		899,416.22
		140,710.92		53,963.49
		30,070.07		
		59,918.01		
		28,465.01		
2420 Poison Control Services		11,770.66		
2421 Public Health Laboratories		1,415,000.00		1,333,597.98
2422 Social Hygiene		179,440.46		96,752.43
2425 Environmental Health Services		574,706.26		250,707.11
2428 Industrial Health Services		99.353.67		3.210.00
2430 Medical Services		1,860,621,62		5,22,0.00
2432 Health Care Program		14,402,545.62		1,378,296,47
2433 Insulin and Other Special Drugs		63.974.76		18,354.41
2434 Emergency Air Ambulance Service		37.268.39		10,004.41
2436 Nursing Aides		772.460.52		COF 702 40
2437 Laboratory and X-Ray School		38.351.05		605,763.46
2440 Poliomyelitis				36,093.78
2441 Medical Rehabilitation Services		100,678.91		4,022.04
2442 Cerebral Palsy Clinics		3,737.15		1,448.18
		86,628.37		40,116.18
		21,066.41		
2444 Multiple Handicapped Program		67,644.65		21,737.32
2450 Cancer Services		2.470.139.99		934,649 42
2478 Hospital Construction Grants		4,979,919.88		1,496,934.99
2479 Hospitalization - Nursing Homes		6.254.883.00		
2480 Hospitalization - General	1	14,354,116.51		50,573,926.40
DIVISION OF TUBERCULOSIS CONTRO	)L			
2455 Director's Office and Clinics		171,070.41		11,500.00
2456 Aberhart Memorial Sanatorium, Edmonton		1.352.955.51		575,286.90
2457 Baker Memorial Sanatorium, Calgary		1,399,617.23		387.921.40
		1,000,011.20		301,321.40
DIVISION OF MENTAL HEALTH				
2460 Director's Office and Guidance Clinics		802,754.98		175,712.50
2463 Alberta Hospital, Ponoka		3.921,876.98		559,236.08
2465 Alberta Hospital, Edmonton		4,230,464,88		691,914,79
2467 Rosehaven, Camrose		1,131,535.43		349,002.78
2468 Alberta Hospital, Claresholm		952.454.20		150.621.74
2469 Alberta Hospital, Raymond		182,302,58		50.574.63
2472 Emotionally Disturbed Children's Program		49.721.24		4.381.00
2475 Alberta School Hospital, Red Deer		3.348.209.59		392.102.52
2477 Deerhome, Red Deer		3,415,130.02		390.078.46
	\$1	73,574,421.43	\$	64.298,606.79
Total Expenditure - Health Department			g-1	73,574,421,43
Less Health Revenue				64,298,606.79
Net Expenditure - Department of Health			\$1	09,275,814.64

#### **Vital Statistics**

The Vital registrations during the year were as follows:

Births	30,691
Marriages	12,903
Deaths	9,523

The population for 1967 was 1,490,000 and, therefore, the following rates have been recorded:

77	No. of	Birth	No. of	Marriage	No. of	Rate
Year	Births	Rate	Marriages	Rate	Deaths	Death
1962	 38,804	28.3	10,423	7.6	9,264	6.8
1963	 38,467	27.4	10,163	7.2	9,444	6.7
1964	 36,173	25.3	10,634	7.4	9,482	6.6
1965	 32,664	22.5	11,209	7.7	9,534	6.6
1966	 30,592	20.9	11,879	8.1	9,677	6.6
1967	 30,691	20.6	12,903	8.7	9,523	6.4

On the whole these figures are good. The birth rate has continued to decrease. The natural increase (excess of births over deaths) was 21,168.

#### Alcoholism

Established April 1, 1965, as an agency of the Department of Health, the Division of Alcoholism operates out-patient clinics in Calgary, Edmonton and Red Deer, as well as "Henwood", an in-patient unit situated northeast of Edmonton.

An Advisory Council of sixteen Alberta citizens, representing all sections of the Province, assists the Director in setting Division policy and objectives.

Close liaison is maintained with other social service agencies, the medical profession, clergy and law enforcement personnel. Training programs, seminars and group discussions provide the latest information concerning alcoholism for these helping professions. Through the community services department, the Division is encouraging and assisting in the establishment of community alcoholism programs in smaller urban centres.

There were 1,142 new cases registered at the three clinics in 1967. Counselling interviews totalled 9,923, medical interviews (with either clinic nurses or physicians) totalled 7,098, and there were 873 group therapy sessions held.

#### **Communicable Diseases**

In 1967 one case of paralytic poliomyelitis without fatality was reported. This is the first case reported since 1964.

There were 13 cases of typhoid fever reported with no deaths and nine cases of diphtheria without deaths. These are substantial increases over previous years and highlight the endemic nature of these two diseases, the need for continued vigilance and continued emphasis on immunization against diphtheria for all young age groups.

A total of 3,008 cases of measles was reported as against 6,720 cases reported in 1966. This reduction undoubtedly reflects the effect of the measles immunization program commenced in 1966.

A total of 860 cases of infectious hepatitis with four deaths was reported in 1967. This is an increase of 299 cases over 1966, but is well below the peak years of 1962

and 1963.

No cases of rabies, human or animal, were reported in 1967

#### Health Units

A total of 25 Health Units are in operation in Alberta, in addition to the Local Boards of Health of the Cities of Calgary and Edmonton.

751,613 people or approximately 95% of the population residing outside the Cities of Edmonton and Calgary are served. Total grants from the Province to Health Units and City Health Departments in 1967 amounted to \$2,075,452.27.

#### Public Health Nursing

This branch provides consultative services to the staffs of the health units, and also is responsible for the Municipal Nursing Service.

A total of 16 nurses working in 13 municipal nursing stations throughout Northern Alberta provided a very useful and valuable service in areas where no other medical services of any kind exist.

#### Maternal and Child Health

The services of the Nursing Consultant continued to be in demand throughout the Province, in addition to the on-going work of helping and advising health unit and municipal nurses.

Through a Federal-Provincial Maternal and Child Health Grant, teaching equipment for prenatal classes was distributed to health units, municipal nurses and city health departments. Those health units who acquired and used the equipment reported very successful programs. It is unfortunate that a relatively small number of health units took advantage of the opportunity.

#### **Dental Health Services**

A total of 11 full-time and 14 part-time dental officers together with 27 dental auxiliaries and 17 dental assistants are employed in 21 dental health programs operated by 19 health units and two city health departments.

As of December 31, 1967, 25 communities are now operating fluoride-adjusted water systems, and in addition a further 13 communities have passed fluoridation plebiscites and were awaiting installation of the necessary equipment.

#### **Medical Services**

A wide variety of medical and para-medical treatment services are provided through this Division.

#### Cerebral Palsy

The Cerebral Palsy Clinic in Calgary was incorporated into the Division of Medical Services as of November 1967, for administrative simplicity and efficiency. Clinical direction remains in the hands of Dr. Margaret Pearson.

#### Cystic Fibrosis Program

This program now has 78 children registered with it who are receiving all antibiotic drugs and pancreatic enzymes necessary in their treatment. The cost in 1967 was \$10.968.36.

#### Diabetic Treatment Program

This program offers insulin and various oral hypoglycemic agents to needy diabetic patients. In 1967 a total of 1,248 patients were treated at a cost of \$44,030.34.

#### **Emergency Air Ambulance Service**

During 1967, a total of 146 flights, carrying 161 patients was made, at a cost of \$37,268.39.

#### Laboratory and X-Ray School

Fifteen students trained as combined Laboratory and X-Ray Technicians were graduated in 1967, bringing the total graduates to 235. The program cost \$47,362.60 during the year.

#### Pensioners' Medical Services

This program, which provided physicians' services for the Social Service Recipient groups, was discontinued as at 30th June, 1967, after some 21 years of continuous operation. Started in 1947 by agreement with the College of Physicians and Surgeons of Alberta, with practising members of the College providing the care, it has been an outstanding example of a successful combined effort of the medical profession and government due to mutual trust and co-operation.

#### Phenylketonuria Program

This program, in operation since 1960, has 13 patients receiving the necessary dietary supplement at a cost during 1967 of \$2,580.00.

#### Poliomyelitis Treatment Program

A total of \$10,894.91 was spent in providing the various services which are available to sufferers from poliomyelitis.

#### **Poison Control Services**

These services, formerly under the Division of Entomology and Vector Control, are now a function of the Division of Medical Services.

#### Registry for Handicapped Children and Adults

The registry now has over 15,000 cases registered, and the first annual lists of all cases registered in each health unit were prepared and forwarded to the health units.

The registry continues to cooperate with the Congenital Anomalies Surveillance Program in Ottawa.

#### Rheumatic Fever Prophylaxis Program

In operation since June, 1958, and providing penicillin free to all children up to the 18th birthday who have had rheumatic fever, this program cost a total of \$6,055.00. 280 new cases were enrolled and 4,203 continuing cases were served.

#### Schools for Nursing Aides

498 Certified Nursing Aides were graduated from the two schools in the Province, bringing the total graduates since the first school opened in 1948 to 7,127.

#### Special Handicapped Children's Program

Continuing care for six phocomelic (Thalidomide) children was provided at a cost of \$3,737.15. The Juvenile Amputee Clinics operated in Edmonton and Calgary saw a combined total of 191 review cases and 31 new cases in 1967. In addition, services were provided for certain children in the Multiple Handicapped Children's Unit at the Glenrose Hospital. The total cost of these three services was \$56,733.10.

#### Treatment Services for Social Service Recipients

Certain changes in methods of recording statistics will be noted.

The average monthly number of Social Service Recipients was 80,602, an increase of 6,789 over 1966. The total amounts of monies expended was \$1,777,972.54, a decrease compared to 1966 which is accounted for by the transfer of the provision of physicians' services to the Alberta Health Plan.

#### **Environmental Health Services**

This Division, formerly called the Division of Sanitary Engineering, continued and extended its work of air and water pollution control, municipal engineering, public health and plumbing inspections.

An Alberta Advisory Committee on Pollution Control, with broad terms of reference to look into and advise on all forms of pollution, air, water and soil, was established in 1967. This committee, whose members number 87 and represent all parts of the Province, had its initial meeting in October. The on-going work is carried out by five sub-committees, each one of which concentrates on one phase of pollution. The administration for the committee is lodged with this Division.

256 submissions for new or extensions to existing waterworks and/or sewerage systems were approved, and nine public and 10 semi-public swimming pools were approved for construction.

There are 25 communities fluoridating their water supply, and a further 10 communities have passed fluoridation plebiscites but have not yet commenced the actual operation.

#### **Industrial Health Services**

During 1967 a survey of 1,500 grain elevator operators was undertaken. Each worker was given a chest X-ray, spirometry and certain skin tests to determine sensitivity to various dusts to which they might be exposed. As an outgrowth of this survey, 165 workers in flour mills,

225 workers in seed cleaning and treating plants, 110 workers in feed mills, 240 highway workers and 125 foundry workers were also tested. The whole project was made possible by the co-operation of the North-West Line Elevators Association, Alberta Division, and the member elevator companies. Assistance was also provided through a research grant from the Department of National Welfare.

The normal work of this Division, the defining and assessing of industrial health hazards, and devising ways of preventing, lessening or eliminating them was carried out as well.

#### **Tuberculosis Control**

The Division of Tuberculosis Control continued its work of finding and treating new cases of tuberculosis in the two tuberculosis sanatoria, carrying on the treatment of known cases and operating the province-wide registry of tuberculosis patients. During 1967 a total of 745 new cases of tuberculosis were discovered, and in comparison with previous years it would appear that the number of new cases is levelling out with only minor fluctuations upward or downward.

#### Mental Health

The Alberta Guidance Clinics continued to give increasing service in their respective areas. With the increase of counselling services in schools and other welfare agencies, the cases referred to the Clinics are becoming more complicated and require more extensive investigation and treatment.

There continued to be an increasing demand for admission of patients to the facilities for the mentally retarded, both juvenile and adult.

Bursary assistance was provided to psychiatrists, psychologists and social workers to obtain specialized training. In addition, special leave for courses for nursing personnel was given.

Training programs for psychiatric nurses were increased and orientation programs provided for ward aides and attendants, as well as special courses for some persons in supervision.

Studies at the various facilities were undertaken to improve conditions for both patients and staff.

Because of changes in the physical facilities, new bed capacities were established and are as follows:

ACUTE MENTAL HOSPITALS		
	Capacity	Patients in
Alberta Hospital, Edmonton  Alberta Hospital, Ponoka		960 1,141
CONTINUED TREATMENT HOSPITALS Alberta Hospital, Claresholm Alberta Hospital, Raymond Rosehaven, Camrose	375 78 4 <b>42</b>	341 119 467
INSTITUTIONS FOR MENTAL DEFECTIVES		
Alberta School Hospital, Red Deer Deerhome, Red Deer	940 1,141	977 1,228
EMOTIONALLY DISTURBED CHILDREN'S UNIT		
Linden House, Red Deer	25	10
Total	5,135	5,243

#### Alberta Health Plan

The Alberta Medical Plan which commenced on October 1st, 1963, became the Alberta Health Program on July 1st, 1966, at which time a range of Extended Health Benefits were included, the Government providing a financial subsidy towards the premium costs charged by the insuring companies for those persons in defined taxable income levels. On July 1st, 1967, the Alberta Health Plan was introduced, directly providing insured services through a government agency operated by the Alberta Health Plan Division of the Department of Health.

#### **Hospital Services**

For information regarding the Alberta hospitalization program, it will be necessary to refer to the 1967 Annual Report issued by the Hospital Services Section of this Department.

#### Professional and Sundry Acts

In regard to the subject of Professional and Sundry Acts, the Minister of Health is charged with the administration of the following:

The Chiropractic Profession Act

The Dental Association Act

The Medical Profession Act

The Naturopathy Act

The Optometry Act

The Ophthalmic Dispensers Act

The Alberta Pharmaceutical Association Act

The Podiatry Act

The Veterinary Surgeons Act

The Psychologists Act

With reference to The Podiatry Act, The Optometry Act and The Ophthalmic Dispensers Act, Boards of Examiners have been established by the Department in order to license all members who desire to practice in Alberta. Pursuant to The Chiropractic Profession Act and The Naturopathy Act, Appraisal Boards have been formed by the Department of Health in order that members wishing to practise in Alberta may be "recorded" through the Provincial Government. With regard to the other Acts, membership is obtained through the various Associations established under each respective Act. During the calendar year 1967, the Chiropractic Appraisal Board approved ten applications, and the Board of Examiners pertaining to The Optometry Act issued eight licenses. The Boards under The Naturopathy Act and The Podiatry Act did not receive any applications to review during this year. The Ophthalmic Dispensers Board of Examiners awarded one Certificate of Competency in Dispensing, rejected one candidate for lack of experience and seven more applications were still under review as of December 31, 1967. Under the same Act, this Board issued fifteen Special Certificates of Competency in Dispensing Contact Lenses, while two other applications were still under review as at the end of the calendar year.

Respectfully submitted,
P. B. Rose, M.D.,
Deputy Minister of Health.

## DIVISION OF LOCAL HEALTH SERVICES

W. Watt, M.B., Ch. B., D.P.H., Director

The Division of Local Health Services is the central administrative structure for the reference of Local Boards of Health. It is composed of the following branches, each of which has its own Director and its own fiscal appropriation.

- 1. Communicable Diseases
- 2. Health Units
- 3. Public Health Nursing, including Maternal and Child Health
- 4. Dental Health
- 5. Health Education and Nutrition Services
- 6. Entomology and Vector Control

The Director of the Division of Local Health Services serves also as the Director of the branches of Communicable Diseases and Health Units. The Public Health Nursing Branch includes a Nursing Consultant in Maternal and Child Health. The Health Education Branch and Nutrition Services, while sharing a common fiscal appropriation, are separate branches, each with its own Director.

At the end of 1966 the branch of Poison Control was transferred to the Division of Medical Services and the annual report for this branch will be contained in the report of the Medical Services Division.

At the end of 1967 a decision was made to phase out the branch of Entomology and Vector Control because of overlapping of services with the facilities of the University of Alberta. From now on, studies on this subject will be the responsibility of the University who will provide for the Province the necessary reference and informational material.

The Division of Local Health Services acts in an advisory capacity to Local Boards of Health, and as the agency of the Department of Health for the payment of fiscal grants to Health Units and City Health Departments

under The Health Unit Act, and to Municipal Nursing Services under The Nursing Service Act. The professional members of the Division serve as consultants to the Medical Officers of Health and senior members of their staff. They maintain close liaison with the Division of the Department, with other Departments of the Provincial Government, with corresponding divisions of the Department of National Health and Welfare, with professional associations and voluntary agencies, and with the University of Alberta.

The Special Legislative and Lay Committee, appointed by Orders-in-Council May 1965, July 1965, and May 1966, for the purpose of studying and receiving representations and recommendations regarding preventive health services in Alberta, presented its report to the Legislature in 1967. A special three-day meeting to discuss the Committee report was called by the Minister of Health in Edmonton. Following a thorough review and discussion of the report by senior staff of Health Units and the Department of Health, and representatives of the Local Boards of Health, acceptance of the report was approved and a decision made to proceed with legislation designed to implement some of the basic and fundamental recommendations.

Miss Amy M. Elliott resigned as Director of Health Education on February 28, 1967, to accept a position with the University of Alberta, and was succeeded on October 2, 1967, by Mr. Léo E. Marinier, from the Department of Public Health in Saskatchewan.

Dr. W. Watt from the Department of Health, Province of Manitoba, was appointed Director of the Division of Local Health Services in October 1967, succeeding Dr. C. L. Pearson who, as Director of the Division of Medical Services, had also held the position of Acting/Director, Division of Local Health Services.

## **COMMUNICABLE DISEASES**

W. Watt, M.B., Ch.B., D.P.H., Director

The functions and responsibilities of the Communicable Diseases Branch of the Division of Local Health Services include:

- The collection and transmission of information and compilation and evaluation of statistics, concerning the morbidity and mortality of communicable diseases;
- (2) The provision of consultant services to local health authorities on matters relating to the prevention and control of communicable diseases:
- (3) The direction or application of control measures against communicable diseases in areas administered by the Provincial Government which are outside the jurisdiction of Health Units:
- (4) The interpretation and distribution of Communicable Disease Regulations;
- (5) The transmission of surveillance orders for smallpox and cholera to local health authorities for attention;
- (6) The transmission of bacteriological, virological and serological reports;
- (7) The distribution of immunizing antigens and sera and supervision of the utilization of those in limited supply;
- (8) The appraisal of immunization programs and the publication of specific recommendations in relation to them.

#### PARALYTIC POLIOMYELITIS

During the year 1967, only one case of Paralytic Poliomyelitis was reported, with no fatality. This is an increase over the years 1965 and 1966 when no cases were reported, but again indicates the efficiency of the immunization program employing Salk and Sabin vaccines.

#### VIRAL OR ASEPTIC MENINGITIS

There were 15 cases of Meningitis (Viral or Aseptic) reported. By way of comparison, there were 19 cases in 1966, and 51 cases in 1965. Coxsackie virus was identified in one case and ECHO virus in another.

#### **TYPHOID FEVER**

There were 13 cases of Typhoid Fever reported in 1967 with no deaths. This is a considerable increase over recent years, there being no (0) cases reported in 1966 and 7 cases in 1965. A review of the past ten years (see Table 6) indicates the endemic nature of Typhoid Fever and the need for continued precautions.

#### **DIPHTHERIA**

There were 9 reported cases of Diphtheria in 1967, but there was no fatality. The corresponding figures for the

two preceding years were 2 cases with one death in 1966, and 3 cases with no deaths in 1965. All 9 cases occurred in the rural areas of the Province, and 8 of the cases were preschool or school age children. Of very great significance is the result of investigations to determine the source of infection of the 9 cases. During the investigations a total of 335 Diphtheria Carriers were located, the great majority again being amongst preschool and school age children. Although in most instances, a highly toxic "Gravis" strain of Diphtheria bacillus was implicated, it was fortunate that no fatalities occurred. Findings such as the above indicate the continued presence and the prevalence of Diphtheria infection in the community, and should remind each resident of the need for frequent and continued immunization against Diphtheria at the young age group levels.

#### **MEASLES**

The number of Measles cases reported in 1967 was 3,008, compared with 6,720 cases in 1966, and 4,100 cases in 1965. The number of deaths from Measles was 6, compared with 4 in 1966 and 7 in 1965. The incidence of Measles in the Province is now at its lowest point in the last 10 years, and this may reflect the effect of the Measles Immunization Program commenced in 1966.

#### STREPTOCOCCAL INFECTIONS

The incidence of Streptococcal Infections (Scarlet Fever and Streptococcal Sore Throat) remains at approximately the same level as it has for the past seven years. The number of reported cases in 1967 reached a total of 1,700, as compared with 1,710 cases in 1966, and 1,262 cases in 1965. Several small surveys have been conducted across the Province by Health Units, and the Provincial Laboratory, to ascertain the prevalence of Streptococcal infection and study the effect of antibiotics and other control measures.

#### **INFECTIOUS HEPATITIS**

There were 860 cases reported in 1967, and there were 4 deaths. Although this would appear to be a considerable increase over the 561 cases reported in 1966, it is close to the 896 cases reported in 1965, and all three years are well below the incidence of Infectious Hepatitis reported in the peak years of 1962 and 1963.

#### **INFECTIOUS ENCEPHALITIS**

Six cases of Infectious Encephalitis were reported in 1967 as compared with one case in 1966, and 8 cases in 1965. It should again be pointed out that the morbidity and mortality statistics for this disease are rather unreliable, since diagnosed and suspected cases are frequently not confirmed virologically, and death certifications are usually unsupported by virological evidence.

#### **RABIES**

No cases of Rabies, either human or animal, were reported in the Province of Alberta in 1967.

#### **IMMUNIZATION**

A high level of immunization amongst preschool and school children against Smallpox, Diphtheria, Whooping Cough, Tetanus and Poliomyelitis is maintained by Health Units, City Health Departments, and the Municipal Nursing Service. The great majority of the children of the Province are immunized. However, the discovery of 9 cases of Diphtheria and 335 Diphtheria Carriers, mostly in the northern areas of the Province, would lead one to suspect and question the immunization status of the native Indian and Metis population.

The Measles Immunization Program commenced in 1966 for children under three years of age was extended to include all children under six years of age in 1967. The schedule which consists of three injections of "killed" Measles vaccine to be followed by one injection of "live" Measles vaccine was designed to procure a maximum degree of immunity and protection, with a minimum risk of reactions. The program was improved at the end of 1967, when Connaught Research Laboratories made available a new "inactivated" Measles vaccine, and a new product incorporating "killed" Measles vaccine with Diphtheria, Pertussis, Tetanus and Salk Polio vaccines.

The value of immunizing vaccines and sera distributed in 1967 was in the vicinity of \$260,000.00.

TABLE 1 NUMBER OF CASES OF COMMUNICABLE DISEASES REPORTED IN THE YEARS 1966 AND 1967

	1966	1967
Brucellosis	1	_
Diarrhoea of the newborn	4	2
Diphtheria	2	9
Dusentery.	~	V
(a) Amoebic	1	1
(b) Bacillary	300	165
(c) Unspecified	2	2
Encephalitis, infectious	ĩ	6
Food Poisoning:	_	· ·
(a) Salmonella infections	193	161
(b) Staphylococcus intoxication	11	3
(c) Unspecified	3	
Hepatitis, infectious	561	860
Malaria	1	1
Measles		3.008
Meningitis, viral or aseptic:	0,120	3,000
(a) Due to poliovirus		1
(b) Due to Coxsackie virus	2	1
(c) Due to ECHO virus	4	1
(d) Other and unspecified	13	12
Meningococcol infections	10	8
Paratyphoid fever	4	0
Pertussis	252	492
Poliomyelitis, paralytic	232	1 1
Psittacosis		T
Puerperal pyrexia	3	1
Q Fever	-	1
Rubella	840	523
Scarlet fever and streptococcal sore throat		
Tuberculosis:	1,710	1,700
	277	269
(a) Pulmonary		67
(b) Other and unspecified	63	6.7
Tularaemia	1	13
Typhoid fever		13

TABLE 2 NUMBER OF CASES BY HEALTH UNIT AND DISEASE, ALBERTA, 1967

	Not in Health Units	222 23 34 2 222 222 222 23 3 2 2 2 2 2 2
	Wetoka H. U.	231115
	Vegreville H. U.	116 1611 61616
	Sturgeon H. U.	184-11111111111111111111111111111111111
	Stony Plain-Lac Ste. Anne H. U.	1.5 5.1. 5.1. 6.1. 6.1. 6.1. 6.1.
	Red Deer H. U.	11 18 1 1 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Peace River H. U.	130 26 26 11 13 13 13 13 16 16 16
S	North Eastern Alberta H. U.	1112 18 17 2 18 17 11 11 11 14 11
CITIE	Mount View H. U.	1 2 5 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Minburn-Vermilion H. U.	3 3 5 1 1 1 1 1 1 1 1 1 2 1 2 1 2 1 1 1 1 1
NIQI	Medicine Hat H. U.	111 111 188 10 1 1 1 1 1 1 1 4 1 1
VCL (	Leduc-Strathcona H. U.	3 7 1 1 1 1 2 3 1 9 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
UNITS INCLUDING	Jasper National Park H. U.	111 1111 - 14111111111 011
	Grande Prairie H. U.	883. 1100. 110. 110. 110. 110. 110. 110. 1
ALTH	Foothills H. U.	22 22 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2
HEA	Edson H. U.	1 1 2 1 1 1 1 1 2 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1
	Drumheller H. U.	111 1811 11816 1111111 11 11
	County of Warner H. U.	111 1111 112111111114 2
	Chinook H. U.	
	Chief Mountain H. U.	11 1411 410 11 10 11 10 011
	Big Country H. U.	1.4 1.1 1.2 2.2 1.1 1.1 1.1 1.1 1.1 1.1 1.1
	Barons-Eureka H. U.	1002 20 1005 1005 1005 1005 1005 1005 10
	Banff National Park H. U.	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Athabasca H. U.	11.5.88.1.1.13.88.1.
	Alberta East Central H. U.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Grande Prairie	3 2 2 1 1 2 2 2 2 1 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2
000	Red Deer	29 28 28 29 11 11 11 11 11 11 11 11 11 11 11 11 11
R 10,	Medicine Hat	
	Lethbridge	103 21 21 2 2 1 2 1 2 2 1 2 2 1 2 1 2 2 1 2
CITIES OVE	Calgary	
CIL	Edmonton	
	IstoT	335 4 4 4 4 4 4 4 4 4 4 4 8 8 4 1 1 1 1 1 1
	DISEASE	Diarrhoea of the newborn Diphtheria Diphtheria Diphtheria Dysentery: Amoebic Bacillary Unspecified Encephalits, infectious Staphycocous intoxication Hepatitis, infectious Staphycocous intoxication Mealaria Mealaria, without pneumonia Measles, with pneumonia Meningitis, infections Pertussis Pertussis Pertussis O Fever Rubbella Starbetcoccal infections Foriomyelitis Co Fever Rubbella Starbetcoccal sore throat Typhoid fever Typhoid carrier

TABLE 3 RATES (PER 100,000 POPULATION) BY HEALTH UNIT AND DISEASE, ALBERTA, 196,

	1		CITIES	CITIES OVER 10,000	10,00	0										HE	HEALTH	UNITS		INCLUDING	CITIES	,	-		-					
DISEASE	9gs19vA	Edmonton	Calgary	Lethbridge	Medicin≡ Hat	Red Deer	Crande Prairie	Athabasca H. U.	Banff National Park H. U.	Ватопе-Еитеka H. U.	Big Country H. U.	Chief Mountain H. U.	Chinook H. U.	County of Warner H. U.	Drumheller H. U.	Edson H. U.	Foothills H. U.	Crande Prairie H. U.	Jasper Mational Park H. U.	Leduc-Strathcona H. U.	Medicine Hat H. U.	Minburn-Vermilion H. U. Mount View H. U.	North Eastern Alberta H. U.	Peace River H, U,	Red Deer H. U.	Stony Plain-Lac Ste. Anne H. U.	Sturgeon H. U.	Vegreville H. U.	Wetoka H. U.	Not in Health Units
Diarrhoea of the newborn	0.1	0.3	1		,			,	1	1	'	,	1	1		-	1		,				-		,	1	,	,	1	<u> </u>
Diphtheria	9.0	1	,	1			<u>'</u>	1	1	(	'	,	1		,	,		ı	-	1			2.	89	- 2	œ.	4 1.9	- 6	1	6
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Encephalitis, infectious Food Poisoning:	0.4	0.5	0.3	.,	2.0		1	-	- (		1	1	4.7	-	1	1	1		1	1		-	2.	00	1	1	1	1	1	
Salmonella	10.8	18.4	80,00	8. 1	6.1 7	7.3		4,	- 9	11.4	T T	11.3	3 27.9	1	. 1	,	1	13.6	35.3	16.7	2.0		.5	6 2.	- 2		4 19. 1	1 10.5	1	46.
Staphylococcus	0.2	- 1	- 1	1			1	1	1	1	1	1	1	1	- 1	ì	j.	,	1	-	6.1	- 1	-	1	1	1	,	1	1	
Hepatitis, infectious		2	9	13.5 18	18, 4 30.	0.7 19.	9.11	0.0	. 3 28.	3	14.	2, 67.8	88.5	5 23.6	7.3	292.9	73.5	40.9	41.4	8.3	16.3128.	. 1 27.	0 233.	2 71.	0 27.	8 104.	5 53, 5	17.5	105.4	494.
Malaria Measles, without	0.1	- 65 617		011	- 00	- 6346	- 6227	- 89	- 48	1 X	- 577	- 250	- 228	- 130		- 04 23	- 77	1 00	216		C	1 14	- 17	1 4	1 22 0 7		- 1367	1 0		
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Meningitis, viral or aseptic	1.0	1.1	0.3		2.0		1	4,	9.	3.8	00	1		1	1	(	1	2.7	1	1	- '	- 1		13.	- 2	,		- 1	. '	4
Meningococcal infections Pertussis Poliomyelitis	33.0 2	0.3	58.4	36	32.7 16.	1.00	5. 5 25	. 9 27.	1 1 1	7.6	14.	2 79.1	1 4.7	111	1 1 1	17.5	1 6 1	5.5		86.1	32.7 21.	. 4	7 39.	3.5.	5 13.	1 20.	9 15.3	7.0	23.8	97.
pyrexia Q Fever Rubella	35.1 2	21.5	32.5	56.7 22.	2.5 38.		7.3 45	. 9	7 559.	3.	120.	33.9	4.7	- 7	1 1 %	26.21	- 107.8	16.4	- 76.7	- 19.4	34.7 35.	- 67	2	2	7 29.	2 20. 9	9 21.0	7.0	51.0	1 16
and streptococcal sore throat Typhoid fever	114.1	76.1	44. 7 278. 2 0. 3 24. 3	28. 2	22.5 14.	1.6 87.	7.3 149.	. 5 27.	- 1	399.9	554.	4565.0	223. 5	910.2	3,7	677.5	9.8	60.5	70.7	83.3	8, 2 124	. 6 134.	8	2 43.	7 13.	1 62.7	7 124. 2	24. 4	51.0	107.

COMMUNICABLE DISEASE CASES REPORTED IN 1967 BY SEX, AGE AND PERIOD OF REPORTING

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			Edmonton Calgary Lethbridge Medicine Hat Red Deer Grande Prairie	Total		Edmonton	Caigary Lethbridge	Medicine Hat	Red Deer Grande Prairie Rural	Total		Edmonton	Calgary Lethbridge	Medicine Hat	Ked Deer Grande Prairie	Rural	1-4-1

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TABLE 4 COMMUNICABLE DISEASE CASES REPORTED IN 1967 BY SEX, AGE AND PERIOD OF REPORTING

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TABLE 4 COMMUNICABLE DISEASE CASES REPORTED IN 1967 BY SEX, AGE AND PERIOD OF REPORTING

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	Total	251	272	71	61	36	53	32	22	39	20	25	26	42	-	-	~	1	50	51	21	24	-	t	1	1	523

TABLE 4 COMMUNICABLE DISEASE CASES REPORTED IN 1967 BY SEX, AGE AND PERIOD OF REPORTING

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	Edmonton	Calgary	Lethbridge	Medicine nat	Grande Drairie	Rural	Total		Edmonton	Calgary	Lethbridge	Medicine Hat	Red Deer	Grande Prairie	Rural	Total		Edmonton	Calgary	Lethbridge	Medicine Hat	Red Deer	Grande Prairie	Rural	Total

TABLE 5
DEATHS ASCRIBED TO COMMUNICABLE DISEASES
FOR THE YEARS 1966 AND 1967

		1966	1	967
	Total Deaths	Rate per 100,000 of population	Total Deaths	Rate per 100,000 of population
Brucellosis Diarrhoea of the Newborn Diphtheria Dysentery Encephalitis Hepatitis, Infectious Measles Meningococcal Infections Paratyphoid Fever Pertussis Poliomyelitis, Paralytic Scarlet Fever and Streptococcal Sore Throat Smallpox Tuberculosis:	1 3 4 4 4 6 0 0 0	0.0 0.1 0.1 0.2 0.3 0.3 0.4 0.0 0.0 0.0	0 1 0 0 6 4 6 2 0 3 0	0.0 0.1 0.0 0.0 0.4 0.3 0.4 0.1 0.0 0.2 0.0
(a) Pulmonary		1.9 0.3 0.0	31 2 0	2.1 0.1 0.0
Population of Alberta in 1966 1 463 203			n of All	perta

TABLE 6
INCIDENCE OF SOME OF THE MORE SERIOUS COMMUNICABLE DISEASES FOR THE TEN-YEAR PERIOD, 1958 TO 1967

DIOLINGE	. TOIL TILE	ISN-IEAR PERIOL	), 1330	10 1301
	1	DIPHTHERIA		
				Mortality
		Total	Total	Rate per 100,000 of
Date	Population	Cases	Deaths	population
1958	1,201,000	17	2	0.2
1959	1.243.000	10	ő	0.0
1960	1,283,000	12	1	0.1
1961	1.331.944	19	Õ	0.0
1962	1,370,000	10	0	0.0
1963	1,405,000	29	3	0.2
1964	1,432,000	1	0	0.0
1965	1,451,000 1,463,203	3 2	0	0.0
1966	1,490,000	9	1 0	0.1 0.0
2001	1,100,000		U	0.0
		MEASLES		
1958	1,201,000 1,243,000 1,283,000	3,383	4	0.3
1959	1,243,000	3,956 9,279	3	0.2
1960 1961	1,283,000	9,279	6	0.5
1961 1962	1,331,944 1,370,000	6,309 10,185	4 5	0.3 0.4
1963	1,405,000	8,535	10	0.4
1964	1,432,000	7,860	9	0.6
1965	1,451,000	4,100	7	0.5
1966	1,463,203	6,720	4	0.5 0.3
1967	1,490,000	3,008	6	0.4
		PERTUSSIS		
1958		684	0	0.0
1959	1,201,000 1,243,000	657	2 5	0.2
1960	1 283 000	580	3	0.4 0.2
1961	1,283,000 1,331,944 1.370,000	315	1	0.1
1962	1.370.000	980	1	0.1
1963	1,405,000	954	2	0.1
1964	1,432,000	281	3	0.2
1965	1,451,000	241	0	0.0
1966	1,463,203	252	0	0.0
1967	1,490,000	492	3	0.2
	POLIOMY	ELITIS, PARALYTI	[C	
1958	1,201,000	22	1	0.1
1959	1,243,000	84	13	1.0
1960	1,283,000	201	11	0.9
1961	1,331,944	26	2	0.2
1962	1,370,000	6	0	0.0
1963	1,405,000	2	1	0.1
1964 1965	1,432,000	1 0	0	0.0
1965 1966	1,451,000 1,463,203	0	0	0.0
1967	1,490,000	1	0	0.0
			_	
		STREPTOCOCCAL		
1958	1,201,000	1,062	0	0.0
1959	1,243,000	5,132	5	0.4
1960 1961	1,283,000 1,331,944	4,131 1,673	$\frac{1}{2}$	0.1 0.2
1962	1,370,000	1,235	0	0.2
1963	1,405,000	1,153	0	0.0
1964	1,432,000	1,601	Ŏ	0.0
1965	1,451,000	1,262	1	0.1
1966	1,463,203	1,710	0	0.0
1967	1,490,000	1,700	0	0.0
	TYF	PHOID FEVER		
1958	1,201,000	6	0	0.0
1959	1.243,000	13	ő	0.0
1960	1,283,000	3	ŏ	0.0
1961	1,331,944	16	ő	0.0
1962	1,370,000	8	0	0.0
1963	1,405,000	2	0	0.0
1964	1,432,000	4	0	0.0
1965	1,451,000	7	0	0.0
1966	1,463,203	0 13	0	0.0
1967	1,490,000	13	U	0.0

## HEALTH UNITS

W. Watt, M.B., Ch.B., D.P.H., Director

Health Units were established in Alberta in 1931 with the encouragement of the Rockefeller Foundation with the specific objective of providing rural areas with preventive health services comparable to those available to the residents of the major cities.

Health Unit Services include the prevention and control of communicable diseases, including tuberculosis and the social diseases, the administration and distribution of vaccines, maternal and child health programs, school health services, health education, mental health programs, public health inspection programs and etcetera. Many Health Units have included a dental health service in their programs. Under the autonomy which each Health Unit enjoys, any program may be introduced to meet the local conditions of the region, which are deemed to be in the interest of the Health Unit.

Besides receiving consulting services from the Division of Local Health Services, Health Units are aided by the Provincial Laboratory of Public Health, the Division of Medical Services, Division of Tuberculosis Control, Division of Social Hygiene, Division of Mental Health, Division of Industrial Health Services and the Division of Public Health Engineering.

Following the introduction of the Health Unit Act in 1951, Health Units have been formed on a geographical basis such that now they are all different in size, population and costs. Some Health Units are too small to operate

satisfactorily on their present economic base.

Some Health Units feel more acutely than others the difficulties of financing health programs and obtaining qualified staff. Regrouping and refinancing seems indicated in order to provide a certain basic standard service to all regions of the Province with special consideration for special "health problem" areas. Loyal public health workers who have resisted the blandishment of exotic employment opportunities in other regions could be rewarded by the security and prestige of a "Career Service."

Total financial grants from the Province to Health Units and City Health Departments in 1967 was

\$2,075,452.27.

The following is a list of the Health Units, showing for each one the location of its headquarters, the population figure upon which its grant from the Department was based for the fiscal year beginning the 1st April, 1967, its approximate area and its population density:

Name of Health Unit Alberta East Central Athabasca Banff National Park Barons - Eureka Big Country Chief Mountain Chinook City of Lethbridge County of Warner Drumheller Edson Foothills Grande Prairie Jasper National Park Leduc - Strathcona Medicine Hat Minburn - Vermillon Mount View North Eastern Alberta Peace River Red Deer	Headquarters Stettler Athabasca Banff Coaldale Hanna Cardston Fort Macleod Lethbridge Warner Drumheller Edson High River Grande Prairie Jasper Edmonton Medicine Hat Vermilion Calgary St. Paul Peace River Red Deer	51,645 51,645 22,730 4,101 28,527 9,589 23,180 36,837 9,905 24,545 29,529 24,545 36,317 2,902 34,973 50,151 29,629 35,646 69,427	# E # # # # # # # # # # # # # # # # # #	Uniterinded of 7.06 1.18 9.51 1.70 6.5.80 30.70 0.55.80 6.15 1.97 0.55.89 7.662 1.36 15.43
Lac Ste. Anne	Stony Plain St. Albert Vegreville Wetaskiwin	25,594	4,300	5.95
Sturgeon		55,072	3,700	14.88
Vegreville		30,723	3,700	8.30
Wetoka		29,989	3,100	9.67

The categories of staff required to implement Health Unit services, and the number of positions in each category established by the end of 1967, with corresponding figures for the five preceding years, are shown in the following table:

Category of Staff	1967	1966	1965	1964	1963	1962	1961
Medical Officers	25	25	24	23	24	24	24
Dental Officers	25	21	13	13	12	9	В
Public Health Nurses	157	151	143	136	143	138	135
Public Health							
Inspectors	37	36	37	34	34	34	34
Dental Auxiliaries		20	19	18	14		_
	17	6	7	6	7	7	7
		60	57	55	55	52	51
Secretary-Treasurers	25	25	24	23	24	24	24
	Medical Officers Dental Officers Public Health Nurses Public Health Inspectors Dental Auxiliaries Dental Assistants Stenographer- Technicians	Medical Officers 25 Dental Officers 25 Public Health Nurses 157 Public Health 157 Public Health 37 Public Health 27 Pental Auxiliaries 27 Dental Assistants 17 Stenographer- Technicians 67	Medical Officers         25         25           Dental Officers         25         21           Public Health Nurses         157         151           Public Health         37         36           Dental Auxiliaries         27         20           Dental Assistants         17         6           Stenographer-         Technicians         67         60	Medical Officers         25         25         24           Dental Officers         25         21         13           Public Health Nurses         157         151         143           Public Health         37         36         37           Dental Auxiliaries         27         20         19           Dental Assistants         17         6         7           Stenographer-         Technicians         67         60         57	Medical Officers         25         25         24         23           Dental Officers         25         21         13         13           Public Health Nurses         157         151         143         136           Public Health         37         36         37         34           Dental Auxiliaries         27         20         19         18           Dental Assistants         17         6         7         6           Stenographer-         7         60         57         55	Medical Officers         25         25         24         23         24           Dental Officers         25         21         13         13         12           Public Health Nurses         157         151         143         136         143           Public Health         37         36         37         34         34           Dental Auxiliaries         27         20         19         18         14           Dental Auxiliaries         17         6         7         6         7           Stenographer-         7 <td>Medical Officers         25         25         24         23         24         24           Dental Officers         25         21         13         13         12         9           Public Health Nurses         157         151         143         136         143         138           Public Health         37         36         37         34         34         34           Dental Auxiliaries         27         20         19         18         14         —           Dental Assistants         17         6         7         6         7         7           Stenographer-         Technicians         67         60         57         55         55         52</td>	Medical Officers         25         25         24         23         24         24           Dental Officers         25         21         13         13         12         9           Public Health Nurses         157         151         143         136         143         138           Public Health         37         36         37         34         34         34           Dental Auxiliaries         27         20         19         18         14         —           Dental Assistants         17         6         7         6         7         7           Stenographer-         Technicians         67         60         57         55         55         52

NOTE: We have nine full time dental programmes and eleven part time dental programmes in the 25 Health Units. Four Health Units offer no dental program while some units have more than one part time Dental Officer.

## PUBLIC HEALTH NURSING

Janet C. Bailey, D.P.H.N., R.N., Director

The Public Health Nursing Branch provides consultative service to the staffs of the health units, particularly in regard to public health nursing program development and nursing personnel. Direct responsibility for the Municipal Nursing Service is also an important function of this Branch.

The slow continuous increase in the number of nurses employed in both the health units and municipal nursing services was maintained in 1967.

In the Municipal Nursing Service after a gradual decline over the years in the number of stations operating,

the number of nurses employed has risen to sixteen working in thirteen centres. During 1967 there was continuous service in all areas as no staff shortage was experienced. Three services, High Level, Wabasca and La Crete, which are located in the area covered by the Northern Alberta Health Services, have two nurses. In one district, Fort McMurray, a full-time clerical worker was employed to assist the Public Health Nurse. This is the first time a clerical worker has been employed in the Municipal Nursing Service.

TABLE I

DISTRIBUTION OF NURSES EMPLOYED IN HEALTH UNITS, MUNICIPAL NURSING SERVICE, AND CITY HEALTH DEPARTMENTS IN RELATION TO BASIC QUALIFICATIONS - DECEMBER, 1967

	W	ITH PUB PREP	LIC HEA ARATIOI		WIT		UBLIC HE			
	Num	ber	Perce	ntage	Num	ber	Perc	entage	TO	TAL
SERVICE	1966	1967	1966	1967	1966	1967	1966	1967	1966	1967
Health Units	78	81	50.3	50.9	77	78	49.7	49.1	155	159
Municipal Nurses	4	5	26.7	33.3	11	10	73.3	66.7	15	15
City of Edmonton	42	50	53.2	58.1	37	36	46.8	41.9	79	86
City of Calgary	68	75	94.4	96.2	4	3	5.6	3.8	72	78
TOTAL	192	211			129	127			321	338

TABLE II

DISTRIBUTION OF NURSES IN RELATION TO POPULATION, AREA, AND POPULATION DENSITY IN HEALTH UNITS AND CITY HEALTH DEPARTMENTS ARRANGED IN ASCENDING ORDER OF POPULATION SIZE - DECEMBER 1967

Local Health		Area in			ealth Unit	No. of	
Authority	Population	Square Miles	Population Density	Senior	Staff	Municipal Nurses	Nurse-Population Ratio
HEALTH UNITS							
Jasper National Park	2,829	4,200	0.67	_	1	_	1:2,829 **
Banff National Park	3,572	2,600	1.37	-	1	_	1:3,572 **
County of Warner	8,460	1,600	5. 29	-	2	-	1:4,230
Chief Mountain	8,850	1,403	6.31	1	1		1:4,425
Big Country	14,069	8,800	1.60	1	3	-	1:3,517
Foothills	20,416	3,800	5. 37	1	3		1:5.104
Chinook	21,481	4,000	5.37	1	3	-	1:5.370
Athabasca	21,827	8,500	2, 57	1	5	2 1/2	1:3,023 =
Edson	22,877	11,000	2.08	1	6		1:3, 268
Stony Plain-Lac Ste. Anne	23,924	4,300	5, 56	1	4		1:4,785
Barons-Eureka	26, 256	3,000	8.75	1	4 1/2		1:4,774
Drumheller	27, 248	4,200	6.49	1	5	_	1:4,541
Minburn-Vermilion	28,095	5,000	5.62	1	6	-	1:4,013
Vegreville	28,652	3,700	7.74	1	6	-	1:4,093
Wetoka	29,400	3,100	9. 48	1	5	-	1:4,900
Mount View	29,676	4,300	6.90	1	5	_	1:4,946
North Eastern Alberta	35,587	6,000	5, 93	1	8	-	1:3,954
Leduc-Strathcona	35,996	1,900	18, 95	1	6	-	1:5,142
Peace River	36,614	26,300	1.39	1	8	3	1:3,761 *
Grande Prairie	36,641	18,400	1.99	1	9½	2½	1:3,284 =
City of Lethbridge	37,022	12	3,085.	1	6	_	1:5,289
Medicine Hat	48,997	9,300	5. 27	1	9	-	1:4,899
Alberta East Central	50,153	7,300	6.87	-	8 1/2	-	1:5,900
Sturgeon	52, 332	3,700	14.14	1	9	-	1:5,233
Red Deer	68,464	4,500	15, 21	1	11	-	1:5,705
	719,438						
CITIES				Dir. S	up. Staff		
Calgary	335,806			2	6 70		1:4,305
Edmonton	381,230			2	9 75		1:4, 433
Total Population	1,436,474						

<sup>\*</sup> Population reduced for ratio by subtracting population served by Municipal Nurses.

\*\* Part-time service.

#### **Professional Training Grants**

For the university year 1966-67, twenty-one nurses received financial assistance through professional training grants to obtain qualification in public health nursing. Twenty of these attended the University of Alberta and one attended McGill University. Eleven bursary recipients obtained positions on the staffs of the health units and four returned to the staff of the City of Edmonton Health Department. No difficulty was experienced in placing all applicants within a short time of the completion of the course. Presently there are twenty-eight nurses in receipt of bursaries for the 1967-68 public health nursing course.

#### Senior Nurses' Workshop

From June 5th to 8th a workshop for all senior public health nurses employed in official and voluntary health agencies was held at E. A. Corbett Hall on the University of Alberta Campus. This was a joint project of the School of Nursing, the Department of Extension of the University of Alberta and the Public Health Nursing Branch. It was financed by a professional training grant from the Department of National Health and Welfare. The guest lecturer and course leader was Dr. Loretta C. Ford, Professor of Public Health Nursing, University of Colorado. Forty-one nurses attended representing eighteen health units, the Health Departments of Calgary and Edmonton, the Edmonton and Calgary branches of the Victorian Order of Nurses, and Medical Services Division, Department of National Health and Welfare. Miss Verna Huffman, Public Health Nursing Consultant, Department of National Health and Welfare, Ottawa, also attended. The workshop evaluations prepared by the participants indicated the sessions were stimulating and challenging. The topics presented included the following:

- Current and impending changes affecting public health nursing.
- Planning of change new patterns and old problems.
- Implementing and evaluating change Personnel and Program Management.
- Teamwork in Planning and Implementing Change.

#### Orientation Course in Tuberculosis Nursing

The educational program for public health nurses working in health units continued at the Aberhart Memorial Sanatorium. The course was shortened to three days and timed to coincide with the first part of the affiliation program given regularly each month to undergraduate nurses. The public health nurses received lectures on tuberculosis nursing treatment and follow up. They also had an opportunity to discuss record keeping and the operation of the Central Registry. A total of twenty-six nurses attended the six short courses held. Eight clerical workers from the health units attended a special one-day course.

As the work of the public health field staff is of great importance to successful care and treatment of tuberculosis patients, the Alberta Tuberculosis Association paid the expenses of those attending the courses. This assistance and the work of the Division of Tuberculosis Control in putting on the courses is much appreciated.

#### Municipal Nursing Service

Even with the continuous development of communities in northern Alberta there remain thirteen areas where the Municipal Nurses provide the only health service. In addition to the public health services, the nurses also provide a minor and emergency treatment service.

During the year there were thirteen nursing services operating in the following centres:

Atikameg - Gift Lake,
(4 days each week),
Blueberry Mountain,
Bonanza,
Calling Lake (½time),
Fort Assiniboine,
Fort McMurray,
Wabasca,
Wanham (½ time),
Worsley.

The Slave Lake Municipal Nursing Service and the Tangent-Eaglesham Municipal Nursing Service were officially closed. In both areas the public health nursing service was continued by the health unit staffs.

The Northern Alberta Health Service which covers the large area of Alberta north of the boundaries of the health units, assisted with the supervision of four municipal nursing services located in their area. Regular visits were made by their senior public health nurse to Fort McMurray, High Level, La Crete and Wabasca. This assistance was much appreciated.

The annual Municipal Nursing Service Conference was held October 10th to 12th at the Civil Defence School in the Alberta Block. The main topics covered included the Alberta alcoholism program, the poison control program, care of infants and nursing care of arthritic patients.

TABLE III
SUMMARY OF MINOR AND EMERGENCY
TREATMENT SERVICES
BY MUNICIPAL NURSES

AGE	OF	FICE	HOM	1E
GROUP	1967	1966	1967	1966
Infant Preschool School Adult Geriatric	1,564 2,337 1,116 3,474 184	1,270 2,920 3,396 7,387 327	473 856 757 1,716 203	283 553 519 792 149
TOTALS	8,675	15,300	4,005	2, 296
			1967	1966
No. of patie medical o No. of accid Municipal	r hospita lents atte	al care	1,648	1,265
No. of home attended b Nurses	confine		10	9

Statistical information in regard to child health conferences, school health services, immunization and other public health nursing service provided by Municipal Nurses is not included here because nine of the services have the statistics for these services included in the annual reports of their respective health units.

#### TABLE IV SUMMARY OF OPERATIONAL COSTS OF ALL MUNICIPAL NURSING SERVICES

	1967	1966
Cost of drugs and medical supplies	\$ 18,252.22	\$ 19,025.85
and medical supplies Total cost of operation of all municipal	13,841.49	13,482.04
nursing services	125,811.20	95,994.46

The Department of Municipal Affairs on behalf of the Local Improvement Districts which have Municipal Nursing Services provide 40% of the operating cost except for the Atikameg-Gift Lake and Calling Lake Municipal Nursing Services. These operate as Contract Nursing Services and as such, all costs are met by the Department of Health.

### MATERNAL AND CHILD HEALTH

T. Beryl Ebert, B.Sc., R.N., Nursing Consultant

#### General

During 1967 the Nursing Consultant made a total of twenty-two visits to health units and municipal nursing districts. Assistance was given with staff in-service educational programs and development of nursing programs was discussed with senior nurses and medical officers. Topics that were discussed included the setting up of risk registers, poison control programs to prevent or follow-up poisoning accidents in preschool children, prenatal classes, school health services, child health conferences, postpartum hospital and home visiting, family planning and family life education programs and health education materials. A number of visits were made to provide support and consultant services to the nursing staff in the absence of the senior nurse or medical officer.

Through a Federal-Provincial Maternal and Child Health grant teaching equipment for prenatal classes was distributed to health units, municipal nurses and city health departments. The equipment consisted of teaching charts, food models, birth atlases, textbooks and demonstration equipment for a baby bath. Thirty-one sets of equipment were purchased. It was disappointing to find that only eleven health units took advantage of the opportunity to acquire equipment and new reference material.

Public health nurses in twelve health units taught prenatal classes in 1967 in one or more centres. Where classes are taught regularly they prove to be popular and well attended. There is a need to extend this service to all parts of the province. Education of pregnant women and early and continued medical care are of prime importance in reducing mortality and morbidity. Statistics show that while Canada has one of the highest standards of living, it ranks fairly low, compared to other countries, in infant and neonatal mortality rates. Segments of the population who do not make use of all available services should be encouraged through education to do so, and the same standard of service should be available to all.

#### National Conference on Maternal and Child Health

The first national conference on maternal and child health was held in Ottawa March 19-22nd. The conference was convened by the Department of National Health and Welfare to consider total health needs of mothers and children, to examine critically programs and services now available to meet these needs, to explore factors affecting utilization of services and to determine where changes in emphasis and organization are necessary to meet needs more effectively. In addition to providing information and inspiration the conference served an important purpose in promoting closer relationships between public health workers, clinicians, University representatives and voluntary health agencies. It is anticipated that further conferences will be held.

In preparation for the conference the nursing consultant prepared a detailed review of maternal and child health services presently available in Alberta. With the use of questionnaires sent to health units, city health departments, hospital obstetric wards and voluntary agencies, information was obtained regarding maternal and child health services, such as prenatal classes, home visiting, child health conferences, the immunization status of children starting the first year of school, school health services, and specialized services available through the Departments of Health, Welfare and Labour.

One interesting finding was that in 1965 and 1966 only about 5% of all pregnant women in the province attended prenatal classes.

It is of some concern to find that there is a wide difference in service given by health units.

Seven delegates from this province attended the conference, representing the Provincial Department of Health, the Provincial Department of Welfare, the City of Calgary Health Department, the Health Units and the Medical Faculty of the University of Alberta.

#### Liaison with Other Professional Personnel

The nursing Consultant attended the annual meeting of the Maternal and Child Health Advisory Committee in Ottawa in October, as Alberta's official representative. She was also appointed to a Sub-Committee on Nursing for a three-year term. The first meeting in Ottawa was held immediately prior to the Advisory Committee meeting.

As the first concern of the Sub-Committee on Nursing it was decided to discuss the need for and provision of facilities for post-basic preparation in maternity nursing. Present facilities are considered inadequate to prepare nurses qualified to give a uniformly high standard of nursing care to maternity patients and new-born infants.

At the annual meetings of the Maternal and Child Health Advisory Committee problems of mutual concern to all provinces are discussed.

On the request of the Director of Elementary School Curriculum, Department of Education, and the publishers concerned, a careful review of elementary school health texts was made to recommend changes before they are approved for use in Alberta schools.

A condensed prenatal teaching institute was held for the public health nursing staff of the City of Edmonton Health Department. Twelve nurses attended for eight half-day sessions which consisted of lectures, films and discussions.

Miss Esther Robertson, Nursing Consultant, Child and Maternal Health Division, visited the province in December. Her visit afforded an opportunity for detailed discussion of Maternal and Child Health programs in Alberta.

Lectures were given to nurses attending the Civil Defence courses. The Nursing Consultant attended meetings of the Alberta Perinatal Mortality Committee and participated in various conferences, and workshops.

### DENTAL PUBLIC HEALTH

A. T. Salter, D.M.D., D.D.P.H., Director

In the capacity of dental consultant to Health Unit Boards and City Health Departments eleven visits were made.

Permission was received to attend the following meetings:

- Advisory Committee on Dental Health, Department of Health and Welfare, Ottawa, April 21-22.
- Canadian Public Health Association Annual Meeting, Ottawa, April 25-27.
- Board of Governors, Canadian Dental Association Annual Meeting, Toronto, May 10-13.

Special permission was received to accompany two representatives of the Alberta Dental Association during a visit to the headquarters of the American Dental Association in Chicago. The main purpose was to evaluate the dental health audiovisual aids and preventive dental health education materials. Complete reports and recommendations were submitted to the Department of Health and to the Alberta Dental Association.

It was my privilege to participate on a panel at the Canadian Public Health Association, Alberta Division, Annual Convention. The paper presented was entitled "A Centennial Look at Dental Public Health". The main theme for the panel was "A Centennial Look at Public Health".

A request was received by the Department of Health to participate in the Federal Health Project No. 609-7-148, "A Survey of Dental Public Health Within the Dental Profession and Within Public Health Agencies, Including those of Government". A comprehensive report was submitted to the Chairman, Public Health Survey Committee

A two-day course on dental public health was attended at the University of Alberta, Dental Faculty. The main clinician was Dr. David Striffler, Professor and Head of Department of Community Dentistry, University of Alberta. The theme of the course was to more effectively integrate the roles of private practice, public health and community dentistry for the benefit of the individual and the nation. This proved to be an excellent course.

A two-day meeting was attended in Edmonton. This meeting was held at the invitation of the Minister of Health to discuss with the health unit boards and representatives the Legislative and Lay Committee Report on Public Health Services in Alberta.

Two regular meetings of the Dental Technicians Board were attended in the capacity of Secretary-Registrar.

Seven candidates wrote the examinations for the Registered Dental Technician Certificate. Five were successful. There are 63 Registered Dental Technicians in Alberta.

Recruitment material for the Dental Auxiliary Training Program was revised and forwarded to all health units and city health departments to be utilized in career counselling. Many letters of enquiry from interested high school students have been received for this information.

In-service training for dental auxiliaries/hygienists and dental assistants in dental public health was undertaken.

Four, half-day meetings were held at the C.N. Tower with the average attendance being twenty-five. Appreciation is expressed to the Health Department, City of Edmonton, for the privilege of utilizing their accommodations and to Dr. T. Gavriloff, Director, Dental Health, City of Edmonton, and to Dr. P. Finnigan, Dental Officer of Health, Stony Plain-Lac Ste. Anne Health Unit for instigating these in-service sessions.

DENTAL HEALTH PROGRAMS
Permanent Staff at December 31, 1967

Health Unit	DENTAL OI	FFICERS Part-Time	Dental Auxiliary/ Hygienist	Dental Assistant
Athabasca		1	2	
Banff National Park		$\frac{1}{2}$	2	
Barons-Eureka	1	2		1
Big Country	1			- 1
Drumheller	1 D.D.P.H.		1	1
Edson		3	1	_
Grande Prairie	1			
Jasper National Park		1		
Leduc-Strathcona		I	1	
City of Lethbridge		1	1	
Medicine Hat	1			1
Minburn-Vermilion		1	1	
Mount View	1 D.D.P.H.		2	1
North Eastern Albert	a,	$\frac{1}{2}$	1	1
Peace River	1	2	$\begin{array}{c}1\\2\\1\\2\\2\end{array}$	1
Red Deer Stony Plain-Lac	1		2	T
Ste. Anne	*1	(1 acting)	7	1
Sturgeon	*1	(1 acting)	1	Т
Vegreville	1	1 acting)	1 1 1	1
CITIES		-	_	4
Edmonton	1 D.D.P.H.		7	5
	(1 Clinical)			
Calgary	1 D.D.P.H.		3	4
•	(4 Clinical)			
	11 D.O.H. 5 Clinical	14	27	17

"Two dental officers of health are being sponsored under the Professional Training Grant to attend the Dental Public Health Diploma' Course, University of Toronto.

### **Dental Preventive Health Services**

Preventive dental health programs were established in two health units during 1967:

### Minburn-Vermilion, May 1967

Part-time dental officer of health and a full-time dental hygienist (graduate from the Dental Auxiliary Training Program, 1963), were appointed.

### Big Country Health Unit, June 1967

Full-time dental officer of health appointed.

There are 19 preventive dental health programs established as an integral health unit service within the 25 health units. Nine programs are directed by full-time dental officers of health and 10 are supervised by part-time dental officers. Seventeen Dental Auxiliary/Hygienists, graduates of the Dental Auxiliary Training Program are employed within the 19 health units. Two of the full-time dental officers of health have their Diploma in Dental Public Health.

The Cities of Edmonton and Calgary, each has a full-time dental director possessing his D.D.P.H. Ten Dental Auxiliary/Hygienists are employed by the cities. Seven of these are graduates from the Dental Auxiliary Training Program.

DENTAL AUXILIARY TRAINING PROGRAM PROFESSIONAL TRAINING GRANT PROJECT #608-2-188 SUMMARY AT DECEMBER 31, 1967

		Pres	Presently Employed				
	Graduated	Healt	h Units	City Health Departments			
Course #1 (1961-63)	19	7	5	2			
Course #2 (1962-64)	18	3	1	2			
Course #3 (1963-65)	10	5	2	3			
Course #4 (1964-66)	8	6	6				
Course #5 (1965-67)	4	3	3				
	59	24	17	7			
Course #6 (1966-68)	stude		accepted	May, 1968 (one bursary for			
Course #7 (1967-69)	8 expected to graduate May, 1969.						

### Oral Fluoride Program November 1966 to January 31, 1968

Total Bottles of Tablets Ordered to Date
50,000 (bottles of 100 tablets)
Total Bottles of Liquid Ordered to Date
48,000 (1 ounce bottles)

Tablets shipped to Cities and Health Units 36,834 Liquid shipped to Cities and Health Units 33,250

Tablets dispensed by Cities and Health Units 27,626 (bottles of 100) Liquid dispensed by Cities and Health Units 22,122 (1 ounce bottles)

### **Volunteer Private Practice Programs**

Communities Requesting Program	Date of Clinic
Ft. McMurray Consort	January 26 - February 4 February 13 - March 4
Bonnyville Oyen	July 5 - July 31 August 14 - September 29
High LevelGrand Center	August 14 - August 26 October 30 - November 11
Slave Lake	December 6 - December 16

The clinical services were made available to these rural areas for a total of 125 working days.

In 1961 the Provincial Department of Health in association with the Alberta Dental Association established a program to provide dental services to those areas where dental care services were not otherwise available. These programs are conducted on a private practice basis and the transportable dental equipment is made available on loan by the Department. Mileage and transportation costs are underwritten by the Department.

From January 1, 1961, to December 31, 1967, a total of 84 Volunteer Private Practice Programs have been

undertaken, by members of the Alberta Dental Association in co-operation with the Department of Health.

### Third Year Dental Student Summer Program

Chinook, Big Country and Jasper National Park employed third year dental students during the summer months.

Two third year dental students participated at High Level, Paddle Prairie, La Crete, and Wabasca under the auspices of the Northern Field Work Summer 1967 Program. This program was under the direction of Dr. S. Greenhill, Professor and Head, Department of Community Medicine, University Hospital, Edmonton. Portable dental equipment from the Department was made available for this project.

These summer programs were preventive and educational in nature. The services were extended to the pre-school and elementary school age groups. Emergency dental treatment was made available to the communities. Dental prophylaxis and topical fluoride applications were offered together with parent counselling and referral to the private practitioner where indicated. These short term programs were well received by the communities.

### **Dental Health Seminars**

Under the sponsorship of the Federal Government Project No. 608-13-17 the Public Health Committee of the Alberta Dental Association in cooperation with the Provincial Department of Health presented five dental health seminars during 1967.

Vermilion – January 25, 1967 Medicine Hat – February 20, 1967 Grande Prairie – October 11, 1967 Fairview – October 11, 1967 Elk Point – November 29, 1967

The physical arrangements were undertaken by the dental and medical staffs of the health units. Excellent cooperation and assistance was received from the teaching staff. Each seminar was included as part of the regular curricula of the day for the elementary, junior and senior high students. In excess of 5,000 students and their teachers received the preventive dental health lectures. The most up-to-date films and slides were utilized by the clinicians during the presentations.

Appreciation is expressed to Dr. G. Clarke, Alberta Dental Association; Dr. W. Simpson, Faculty of Dentistry, University of Alberta and Dr. P. Finnigan, Stony Plain-Lac Ste. Anne Health Unit for their participation as the main clinicians.

The continuation of these seminars from year to year has proven beneficial to the clinicians in developing methods of presentation and enlarging the scope of the audiovisual materials available for the seminars. Guidance and encouragement is given to the dental personnel of the health units to offer similar presentations in their areas to better the oral health of the children today and in the future as adults.

### Controlled Fluoridation in Alberta as of December 31, 1967

There are 23 communities with fluoride-adjusted water systems supplying 25 communities with a total

population of 476,937 representing 45.5% of the population served by piped water systems and 32.6% of the population of Alberta. An additional 35,900 persons are using waters with natural fluoride contents of more than 0.9 parts per million.

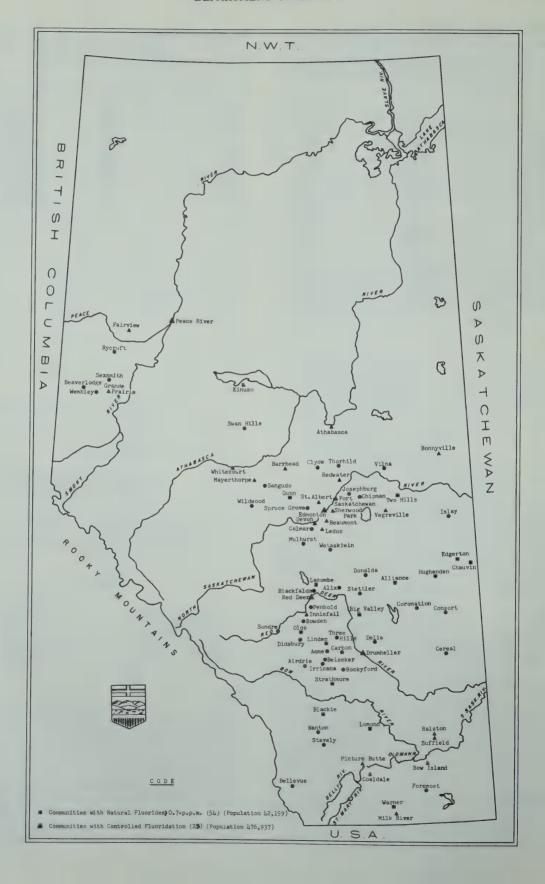
	Date Commenced	Population 1967
Fairview	1958	1.884
Red Deer	1958	26.173
Devon	1959	1,283
Grande Prairie	1959	11,417
Innisfail	1960	2,531
Bonnyville	1961	2,275
Athabasca	1962	1,672
St. Albert	1962	9,828
Fort Saskatchewan		4.277
Leduc	1962	3.029
Beaumont		194
Coaldale	1963	2,541
Peace River	1963	5.024
Suffield-Ralston	1963	2,000
Barrhead	1964	2,718
Kinuso	1964	376
Mayerthorpe	1964	961
Milk River	1964	861
Redwater	1964	1.041
Whitecourt	1965	2.502
Picture Butte	1966	1,013
Drumheller	1967	3,574
Edmonton	1967	381,230
Sherwood Park	1967	5,000
Vegreville	1967	3,533
		476.937

### Fluoridation Plebiscites

Twelve fluoridation plebiscites were held during 1967; 6 received the necessary majority vote.

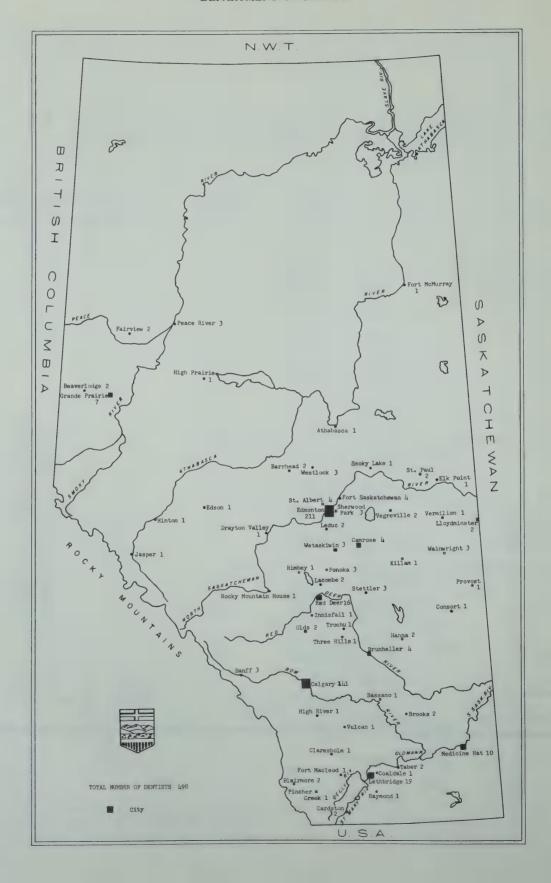
### SUCCESSFUL PLEBISCITES — AWAITING INSTALLATION

Spirit River Bow Island Drayton Valley Elk Point St. Paul Cardston Hanna Hays Hinton Pincher Creek Westlock Grand Center	1,160 3,352 3,775 3,655 2,721 2,633 705 4,461 3,118 2,792 1,746	Date of Plebiscite April, 1958 October, 1964 October, 1966 October, 1966 October, 1966 October, 1966 October, 1966 February, 1967 October, 1967 October, 1967 October, 1967 October, 1967 October, 1967
Taber		October, 1967 October, 1967



# DISTRIBUTION OF DENTISTS IN RELATION TO POPULATION, AREA, AND POPULATION DENSITY IN HEALTH UNITS AND CITY HEALTH DEPARTMENTS ARRANGED IN ASCENDING ORDER OF POPULATION SIZE

Local Health Authority	Population	Area in Square Miles	Population Density	Number of Dentists	Dentist/Population Ratio
HEALTH UNITS					
Jasper National Park Banff National Park County of Warner Chief Mountain Big Country	2,829 3,572 8,460 8,850 14,069	4,200 2,600 1,600 1,403 8,800	0.67 1.37 5.29 6.31 1.60	1 3 1 2 3	1:2,829 1:1,190 1:8,460 1:4,425 1:4,519
Foothills Chinook Athabasca Edson Stony Plain-Lac Ste.Anne	20,416 21,481 21,827 22,877 23,924	3,800 4,000 8,500 11,000 4,300	5.37 5.37 2.57 2.08 5.56	2 5 1 3	1:10,208 1:4,296 1:21,827 1:7,939
Barons-Eureka Drumheller Minburn-Vermilion Vegreville Wetoka	26,256 27,248 28,095 28,652 29,400	3,000 4,200 5,000 3,700 3,100	8.75 6.49 5.62 7.74 9.48	3 6 6 2 7	1:8,752· 1:4,541 1:4,682 1:14,313 1:4,200
Mount View North Eastern Alberta Leduc-Strathcona Peace River Grande Prairie	29,676 35,587 35,996 36,614 36,641	4,300 6,000 1,900 26,300 18,400	6.90 5.93 18.95 1.39 1.99	2 4 9 6 9	1:14,838 1:8,895 1:3,999 1:6,102 1:4,071
City of Lethbridge Medicine Hat Alberta East Central Sturgeon Red Deer	37,022 48,997 50,153 52,332 68,464	12 9,300 7,300 3,700 4,500	3,085. 5.27 6.87 14.14 15.21	19 13 8 9 20	1:1,948 1:3,769 1:6,269 1:5,815 1:3,423
CITIES Calgary	335, 806			141	1:2,382
Edmonton	381, 230			211	1:1,902
Total Population	1,436,474			496	



### **HEALTH EDUCATION SERVICES**

Léo E. Marinier, Director

The Director's position was vacant from February 28, 1967, to October 2, 1967, when the present Director was appointed. The past three months were spent becoming familiar with the duties and performance standards of the position and the general administration of the department. Also as part of the Director's orientation contact was made with a number of agencies: Alberta Tuberculosis Association, Alberta Safety Council, Mental Health Association, Cancer Society, YMCA's Family Life Education Council, National Film Board, Alberta Heart Foundation, Arthritis and Rheumatism Society. After existing programmes were reviewed, preparations were made to initiate new programmes in the coming year.

Basic to all planned programmes in public health is the educational component which meets specific health needs. This Branch endeavors to make its full resources available in an advisory capacity to all health units, city health departments, divisions of this department, voluntary health agencies throughout the Province, as well as other government departments which have similar goals. The Director is asked to serve on a number of committees some of these are long term and continuing, while others are short term and terminate with goal accomplishment. Those committees on which the Director serves presently include the following: Western Canada Farm Safety Conference Planning Committee, Voluntary Advisory Committee to Health Careers Recruitment, Federal-provincial Committee on Health Education, Poison Control Advisory Committee, Alberta Advisory Committee on Pollution Control, Technical Advisory Committee on Health Education Research Concerning Smoking and Health, Health and Physical Education Advisory Committee (Y.M.C.A.), Western Provinces Health Education Institute, Cancer Education Committee. Although, not an active member of other committees, but by virtue of their health oriented goals the Director provides help to the chairmen and members such is the case with the Committee on Misuse of Drugs and Narcotics and the Family Life Education Sub-Committee. He also works and maintains liaison with his counterparts at the University and the Provincial and Federal Governments. Furthermore, to keep abreast of changes in public health education, close contact is also maintained with professional colleagues through professional memberships, literature, journals, attendance at provincial and national conferences and personal contact.

During 1967, the major project which the Branch undertook was the planning of a province-wide poison control programme. To date a 20-minute, 16mm, coloured

film entitled **Poisons** was produced in Alberta. It was filmed under the supervision of the Director of Medical Services of this Department in co-operation with personnel from the University of Alberta. The coloured film will augment the Provincial Poison Control Programme which is scheduled to start in early 1968.

In addition, plans have been initiated to produce two poison control pamphlets which will accompany table top displays now in production. The exhibits will be based on the theme of one of the pamphlets entitled .10 Little Tasters and geared to both preschoolers and their parents. Along with this packaged programme will be several short TV-clips produced to be televised on all the television stations in Alberta.

At the request of the appropriate divisions a number of publications have been revised or printed and plans made to revise others in the coming year. The publications revised were: As Boys Grow, Alberta Guidance Clinics, Your Health Unit, Cerebral Palsy Clinic, Confidentially to Teenagers, Alberta Mental Health Services and Supplement to the Health Education Film Guide.

During the year there were 7800 bookings of the 750 films in the Provincial Health Education Film Library. These films were booked and sent out directly through the Film and Photo Branch in response to requests from schools, hospitals, health units, city health departments and interested community groups. It is estimated that the films were shown approximately 10,000 times to a possible audience of 180,000. The groups of films that proved most valuable were the following: Child Health, Physiology, Mental Health, First Aid and Safety, Chronic Diseases. The groups that used the audio-visuals most frequently were schools, health units, schools of nursing, municipal nurses, voluntary associations and the Department of National Health and Welfare. During the year 15 films were previewed on a variety of subjects. Twenty older films were reviewed with department personnel and were retired because of age.

The Director gave presentations to the Municipal Nurses' Conference and a United Church Youth Group. Plans are underway to meet requests for presentations next year.

As noted earlier, for the major part of the year the Branch was without a Director, and the position of Assistant Director remained vacant, this left the work load to the existing staff who should be commended for a job well done.

### **NUTRITION SERVICES**

Elva M. Perdue, B.Sc. (H.Ec.), B.Ed., Nutritionist

During 1967, professional education and consultation services continued to be the most important phases of the program of Nutrition Services. Although some direct services were provided by this office, individuals and groups were reached mainly through professional personnel such as health unit staff, hospital and institutional personnel and teachers, among others.

The disruption of routine caused by two office moves in 1967, together with the limited staff of one nutritionist and one clerk-typist precluded a substantial extension of the basic service which is carried out from year to year. However, in addition to the usual activities which have been reported in previous annual reports, there was an increased emphasis in some areas as well as a number of additions to the basic program. In this report, only the more time consuming activities and the extended services are listed.

#### Consultant Services to Public Health Personnel

- Forty-one letters and more than 50 phone calls were answered from public health nurses. Both general and specific nutrition information, as well as material on therapeutic diets, were provided.
- 2. The nutritionist participated in five staff conferences of public health personnel at the invitation of the medical officers or senior nurses to discuss nutrition topics that were requested.
- A family food inventory record was planned for use in a medical and dental survey conducted on the Gift Lake Metis Colony by the staff of the Peace River Health Unit.
- Three dental auxiliaries were assisted in planning and preparing dental nutrition exhibits for use in offices and clinics.

### **Consultant Services to Institutions**

- 1. The nutritionist reviewed and prepared written reports on 85 weeks of menus from 16 nursing homes at the request of the Deputy Minister of Hospital Services in the Department of Health.
- Five nursing homes were visited at the request of personnel in the Nursing Homes Branch of Hospital Services. The staff was assisted with organization and dietary problems.
- 3. Job descriptions were drafted for dietary technicians in Provincial Institutions of various sizes.
- Twenty-one requests were answered from personnel in small institutions. Information and materials were provided on quantity food preparation, food purchasing and therapeutic diets.
- Information on child feeding was supplied to day care centres, nursery schools and head start programs.
   Assistance was also given in planning and costing menus.

### Services to Other Government Departments and Agencies

1. The Alberta Government Telephones' emergency

- food plan was reviewed and revised to comply with the current food tenders in use at the Provincial Institutions and to include menus and items needed for the preparation and service of food.
- 2. With the Supervisor of Women's Extension Services in the Alberta Department of Agriculture, the nutritionist served on a committee to prepare the annual revision of the food allowance scales used in the social assistance programs of the Department of Public Wefare.
- 3. The nutritionist assisted in planning the curricula and course content for a three-week Dietary Training Course sponsored jointly by the Alberta Hospital Association and the Southern Alberta Institute of Technology. She was also responsible for 34 of the 84 lecture hours and prepared eleven teaching aids for use in these presentations.
- The nutritionist served on a committee to review and report on the Correspondence Course For Dietary Training offered by the Correspondence Instruction Branch of the Southern Alberta Institute of Technology.
- 5. Meetings of the Advisory Committees for the Dietary Service Technology Programs offered at both the Southern and the Northern Alberta Institutes of Technology were attended. Teaching aids and resource materials were also made available for these courses and, in addition, the nutritionist assisted with the practical examinations given to candidates seeking admission to the Phase B or one-year program at N.A.I.T.

### Services in the Field of Education

- The nutritionist collaborated with Mrs. June Frache on the nutrition section of the school health textbook, "FITNESS FOR LIVING", by Frache and Brown. She also reviewed and reported on the nutrition information in three other health texts written for school use.
- A start was made on nutrition teaching aids suitable for health classes in the primary grades. These have been requested by teachers and public health personnel.
- 3. Nutrition information was supplied in letters sent to 91 teachers, including 36 home economics and vocational food teachers, as well as to 30 home economists. In addition, information on equipment, films and reference materials was sent to 25 dietitians.
- 4. The objectives and activities of Nutrition Services were outlined to key groups of students, including public health nurses, student nurses, dental auxiliaries and dietary technicians. Assistance was also given to 17 students from these fields in planning lectures, demonstrations and teaching aids in connection with nutrition assignments.

- A two-hour lecture on food budgeting was presented to the public health nursing students at the University of Alberta.
- 6. Student public health inspectors were assisted with the nutrition section of their correspondence course.

### Direct Service to the General Public

Information was supplied in response to letters and telephone enquiries from the public-at-large concerning general nutrition, food purchasing, budgeting and therapeutic diets. There were some 25 referrals from private physicians and nurses for patient counselling on therapeutic diets, and numerous requests were received from individuals for recipes suitable for use in special diets prescribed by physicians. The greatest number of the latter were for gluten-free, sodium restricted and altered fat, although, interestingly enough, there were six requests for recipes for phenylketonuria diets.

### Miscellaneous

1. Nine groups were given assistance in planning market

- orders and menus for use in their bus trips to and from Expo. Similar assistance was given to six groups planning summer camps.
- 2. A report was given to the Edmonton Nutrition Committee on the Canadian Public Health Association Convention and the Dominion Provincial Nutrition Committee Meetings which the nutritionist attended in Ottawa. She also made arrangements for speakers for three other meetings of the Edmonton Committee.
- 3. A paper was presented at the February meeting of the Calgary Home Economics Association.
- 4. Twenty-nine films were previewed and assessed for their suitability for inclusion in the Health Education Film Library.
- 5. Eighteen reports on nutrition topics were prepared for government offices, organizations and individuals. A number of these entailed considerable research in professional journals and scientific literature.

### ENTOMOLOGY AND VECTOR CONTROL

J. H. Brown, B.Sc., M.Sc., F.A.P.H.A., M.R.S.H., F.R.E.S., (Lon.), Director and

J. A. Marken, B.Sc., Biologist

Entomology and Vector Control is responsible for the locating of, and the control of arthropod-borne diseases of man and their reservoirs of infection in native small mammals, with particular attention being paid to Rocky Mountain Spotted Fever, Colorado Tick Fever, Bubonic Plague, Tularaemia, Encephalomyelitis, and other less well-known conditions, which are of public health importance. Other problems, such as fly and mosquito control, the use of insecticides, insect infestation in food-stuffs and insect pests of institutions, also fall within the work of the Division. Furthermore, a considerable amount of time is devoted to determining the distribution and species of the insects, ticks and mites that are involved in the transmission of human diseases. A number of other biological problems such as the control of leeches and Swimmers' itch, the evaluation of pesticides as a public health hazard and vermin control are also included.

### ROCKY MOUNTAIN SPOTTED FEVER TICK SURVEY

The Rocky Mountain Spotted Fever tick, Dermacentor andersonii is well-established in Alberta. Its known and supposed range embraces all of that part of Alberta south of a line from Empress west to Calgary, and thence north and west in the foothills and mountains north to Fort St. John, B.C.

Collections — During 1967 good progress was obtained during the annual Rocky Mountain Spotted Fever survey with 33 ticks collected from hosts and 208 ticks from drag making a total of 241 ticks. All of these collections were sent to Dr. J. A. McKiel, Zoonoses Laboratory, Ottawa, for bacteriological examination but no positives were obtained.

Rocky Mountain Spotted Fever — During 1967 there were no reported cases of Rocky Mountain Spotted Fever, although several ticks were removed from the bodies of humans by physicians and were submitted by us to the Zoonoses Laboratory, Ottawa, for testing in suckling mice and guinea pigs. Positive results were not obtained. However, it is known that infected ticks and reservoirs of infection are present at Medicine Hat, Lethbridge, Milk River, Manyberries, Brooks, Kananaskis and Banff.

Vaccinations — During 1967 a total of 1,389 doses of Rocky Mountain Spotted Fever vaccine were given in the Medicine Hat, Lethbridge, Milk River, Manyberries, Brooks, Kananaskis and Banff areas. Ralston gave a separate count of 560 doses making a grand total of 1,949 given.

Tick Paralysis — In April, 1967, a case was clinically diagnosed at the Ponoka Alberta Hospital of a woman patient, age 71, who had been visiting relatives in the Merritt, Summerland and Penticton areas of British Columbia. After the tick was removed and treatment administered, the patient's paralysis and fever began to diminish. In June, 1967, a second case involved a 4½-year-old Indian child who was admitted to the Macleod

Hospital. She had loss of appetite, was restless, irritable, clumsy and unstable on her feet. After an engorged live tick was removed from the child's head, her condition improved gradually and she was discharged on the fifth day.

### **BUBONIC PLAGUE SURVEY**

Two very large areas of Plague infection, one centering on Hanna and the other on Brooks exist in Alberta. In both areas, plague-infected Ground Squirrels (gophers) and plague-infected Ground Squirrel fleas have been collected.

There are also other species of fleas in Alberta which ara capable of transmitting plague from infected animals to man. Fortunately, most of these species are not very numerous, and in many cases the distribution is limited. During the 1967 Plague Survey 78 fleas were taken from such animals as the Pocket gopher, Chipmunk, Striped Ground squirrel, and Richardson Ground squirrel collected at St. Albert, Elk Island Park, Oyen, Hanna, Rocky Mountain House, Ardrossan and Peace River. All collections were sent to Ottawa for bacteriological examination but the results were negative.

### **FLY CONTROL**

A program of Fly Control within Health Units was continued during 1967 based mainly on adequate sanitation and proper garbage disposal, and aided by chemical spraying. This program was developed in this Division several years ago and is based on the fact that spraying for fly control in small towns is very costly. The program still appears to be well accepted.

MOSOUITO CONTROL

Mosquitoes did not present a very serious problem in 1967. However, they constituted a nuisance at most of the summer resort areas. Since the establishment of the Provincial Parks, there has been a very great demand in all parks of the province for local mosquito control programs, but, unfortunately, mosquito control in such small areas is expensive and ineffective unless a definite long range program embracing a number of such places is undertaken.

**SCHISTOSOMIASIS** 

Swimmers' itch is a condition caused by the penetration of the skin by a small fork-tailed parasite (cercariae). In man it always follows bathing or swimming in infested lakes or ponds and is characterized by a localized area of very itchy wheals.

Snails, which are the host for the cercariae, are sensitive to Copper sulfate, and under certain conditions, small quantities of it in the water will poison them. As this has to be done at least once a week it becomes an expensive control. This same chemical is also toxic to fish and unless properly applied can have a very adverse effect on the fish population. Furthermore, there is a grave danger that the accumulation of this toxic chemical in the water will present a hazard to the general public.

Practically all of the snail species present in Alberta carry the parasite. The degree of infestation varies within the species depending upon whether the snails are present in lakes or semi-permanent or permanent sloughs. It has been determined that the abundance of snails can be related to the type, or types, of aquatic vegetation present. This is considered to be highly significant, as a probable control could be developed through the destruction of the aquatic weeds which supply shelter and food to the snails.

General — During 1967 many calls were received in the Division from people requesting information on the control and treatment of Swimmers' itch. Advice was given over the telephone, and a mimeographed sheet on the treatment and control was sent. All cases were advised to consult their doctor.

### WESTERN EQUINE ENCEPHALITIS

Studies were continued in 1967 on the arbovirus vector species of mosquitoes that were found to be present in Alberta in all areas north of the Red Deer River in which light traps were established, and also on the WEE virus that was recovered from poultry sentinel flocks, wild bird bloods, and small mammal bloods in the same areas.

Most of the field work in 1967 involved the collecting of blood and tissue specimens from wild birds, small mammals, and domestic poultry flocks. A total of 122 tissue specimens and 25 blood samples were collected from native small mammals, 97 blood specimens and 24 tissue specimens were taken from wild birds, and 91 blood samples from random poultry flocks in Alberta. From these specimens a positive for WEE was obtained from a turkey blood that was collected at Hanna on July 22, 1967.

There was a low incidence of reported WEE cases in Alberta during 1967. This low incidence is probably directly connected with the low mosquito population that resulted from the warm, dry summer.

### **LEECHES**

Leech infestations were reported from many Alberta lakes during 1967 and appropriate advice was given. It is evident that leeches will become a serious problem at many of the resort areas now being developed, particularly in regard to the wading areas, and the operators of resort areas are still very much concerned about the problem.

### HARVEST ITCH

Harvest itch is a skin condition somewhat similar to scabies and is caused by mites. The mites involved are normally on such vegetation as grain and grasses and are accidentally transferred to the person of harvesters and others handling such materials, particularly in the fall and winter. The necessary advice for controlling outbreaks was given to the Health Units and local medical practitioners during 1967.

### **Q FEVER**

In 1967 the Q Fever Survey was carried on in co-operation with the Provincial Laboratory of Public Health and the Dairy Bacteriology Laboratory, Department of Agriculture, and demonstrated the presence of the organism in dairy herds in various parts of the province.

The following are the results obtained from milk samples received at the Provincial Dairy Laboratory and submitted by Dr. V. W. Kadis, Director, for the period from December 1, 1966, to November 30, 1967.

SAMPLES TESTED	
Total Number of Milk Samples Tested Negative Samples Positive Samples Positive Samples	6,160 5,624 536 8.70

COLLEGES OF SAMPLES

50	UKCES U	F SAMPLES			
Edmonton AreaCalgary AreaLethbridge-Medicine		Negative 1,831 344	Positive 82 78	% Positive 4.29 18.48	
Hat Area All other areas		524 2,925	205 171	28.12 9.45	

As in previous years, it still is observed that once a herd becomes infected, it usually remains infected.

#### LABORATORY

Insect Identifications — During 1967 a large number of insects from different products and places were received for identification. Insects from tropical and semi-tropical areas continue to be found in Alberta. From the increase in their numbers, and as they are plant-eating insects, it would appear that the increase may be directly connected with the vanning-in of fruit and vegetables from the southern United States, Mexico, and Central America. Suitable information for control measures was supplied to the public, local Sanitary Inspectors, and City Health personnel.

Insect Collections — Good progress was made in 1967 in establishing a reference collection of insects and ticks injurious to human health.

Water Samples — During 1967 many of the samples of water from reservoirs, domestic water supplies, lakes, etc. sent in from the Health Units were found to contain Algae, Chromogenic bacteria, cecariae, and small aquatic insects. Information regarding these conditions was given by letter or telephone.

### STAFF

The Branch was saddened by the death of its Director, Mr. J. H. Brown, on December 5, 1967. Mr. J. A. Marken, Biologist, continued as Acting Director.

### DIVISION OF MEDICAL SERVICES

C. L. Pearson, B.Sc., M.D., D.P.H., Director

The Division of Medical Services is the administrative structure of the Department of Health concerned with medical and para-medical treatment services. The branches of this Division are as follows:

- 1. Emergency Health Services
- 2. Special Handicapped Children's Programs
- 3. Registry for Handicapped Children and Adults
- 4. Cystic Fibrosis Program
- 5. Diabetic Treatment Program
- 6. Phenylketonuria Program
- 7. Rheumatic Fever Program
- 8. Emergency Air Ambulance Service
- 9. Poliomyelitis Treatment Program
- 10. Treatment Services for Social Service Recipients
- 11. Schools for Nursing Aides
- 12. Registry for Nursing Aides
- 13. Health Careers Recruitment Program
- 14. Laboratory and X-Ray School
- 15. Northern Alberta Health Services
- 16. Cerebral Palsy Clinic
- 17. Poison Control Service
- 18. Alberta Health Program

In the administration of the various programs operating through the Division of Medical Services, the Division becomes involved with the following Acts: The Treatment Services Act, The Poliomyelitis Sufférers Act, The Nursing Aides Act, The Health Unit Act, The Public Health Act, The Medical Profession Act, The Nursing Service Act, The Civil Defence and Disaster Act, The Alberta Hospitals Act, The Homestead Lease Loan Act, The Motor Vehicle Accident Claims Act, The Chiropractic Profession Act, The Naturopathy Act, The Optometry Act, The Ophthalmic Dispensers Act, The Podiatry Act, The Public Welfare Act.

### **EMERGENCY HEALTH SERVICES**

This organization is responsible to the Minister of Health through the Division of Medical Services and its functions are twofold:

- 1. To establish a system of Emergency Health Services throughout the province to meet a National Emergency and to provide the necessary medical care for the maximum portion of the population.
- To assist and advise all Active Treatment Hospitals in the province in the preparation of a Disaster Plan to meet with any national disaster and to test the efficiency of this Plan.

The Acting Director was A. W. Mann, Ph.C., the Pharmacist Supplies Officer. Associated with him were two Nurse Consultants, a Stores Officer and two Clerical Staff.

All phases of the Emergency Health Services programme, planning, training, stockpiling and orientation, showed progress. Ten Hospital Disaster Exercises were held. A total of 78 hospitals have conducted Disaster Exercises. Eight hospitals have conducted two or more Hospital

Disaster Exercises. The 200-bed Emergency Hospital was used for three Training Exercises and public displays.

Twenty Casualty Collecting Units were allocated to Alberta. All these were prepositioned. Twenty Advanced Treatment Centres were Alberta's allocation. Twelve have been prepositioned. Of the twenty Emergency Hospitals allocated, twelve had been prepositioned.

Twenty-eight Emergency Health Services courses were held throughout the province. Lectures were given in all the Nursing Schools, to Emergency Measures courses at the Civil Defence School, to St. John Ambulance, Dental Hygienists and three Home and School Associations.

Disaster Planning Meetings were held with the Executive Directors of the Active Treatment Hospitals in Edmonton, the Northern Zone Medical Director, the Edmonton City Area Medical Director and the Superintendent of Emergency Measures Organization, City of Edmonton. Cost of this service amounted to \$54,312.45 during the year.

#### SPECIAL HANDICAPPED CHILDREN'S PROGRAMS

Provision is made under the Treatment Services Act to cover these programs, which include the Thalidomide Program, the Multiple Handicapped Children's Unit at the Glenrose Provincial General Hospital, and the Juvenile Amputee Clinics.

The Department continued certain responsibilities, authorized in October of 1963, concerning six children with full Phocomelic deformities, possibly due to thalidomide, and the cost of this program during the year amounted to \$3,737.15.

The Juvenile Amputee Clinics, which were established at the University of Alberta Hospital, Edmonton, in June of 1964 and the Alberta Children's Hospital, Calgary, in December of 1965 continued on a consultative basis to children who were not over the age of 17 and who suffer an amputation, congenital or traumatic.

During the calendar year, ending December 1967, the Edmonton Juvenile Amputee Clinic examined 122 patients of whom 21 were new patients and 101 were review cases. The Clinic in Calgary examined 100 patients of whom 10 were new patients and 90 review cases. The total cost to the Division of operating the Juvenile Amputee Program and a Multiple Handicapped Unit at the Glenrose amounted to \$56,733.10.

### REGISTRY FOR HANDICAPPED CHILDREN & ADULTS

The Registry, which is now in its 5th year of operation, has over 15,000 registered cases. Since our policy continues to be that of voluntary rather than compulsory registration, the case load will not likely represent 100% registration of handicapped people throughout the province. However, due to the excellent cooperation of the Health Units, C.N.I.B., and various special

clinics and other organizations, we continue to receive new registrations at a rate of about 250 per month.

While confidentiality is strictly maintained regarding names and addresses of registrants, information is released from time to time regarding special handicaps when requests are received from research students, special clinics or other legitimate sources of enquiry.

The Registry has continued to co-operate with the Congenital Anomalies Surveillance program in Ottawa.

The first annual lists of all cases registered in each Health Unit were prepared last year and forwarded to the Health Units. This proved helpful to the staff in making them aware of cases, registered by other sources, of which they were not aware. It also proved helpful to the Registry, as Health Units returned up-dated information regarding the listed cases.

The staff is now in the process of recording all anomalies in accordance with the new International Classification of Diseases, adapted for use in the U.S. (ICDA).

Cost of operating the Registry amounted to \$10,911.55 during the fiscal year.

The Registry continued to be a liaison between individuals and Health Unit Staff members, and special clinics and resources for the care of the handicapped. The Director has spoken to groups of Public Health Nurses, informing them of the nature and functions of the Registry.

### CYSTIC FIBROSIS PROGRAM

The program commenced in May of 1964 and was established to provide antibiotic drugs and pancreatic enzymes necessary for the treatment of children suffering from this condition. This action was deemed necessary because of the high cost of this often life-saving treatment which was beyond the means of many.

A child is registered on this program by his or her physician, using criteria recommended by the Special Drugs Advisory Committee. The drugs are provided free of charge and without a means test to child registrants up to the eighteenth birthday. Seventy-eight children were receiving these drugs during the calendar year 1967 and the expenditure incurred by the Department amounted to \$10,968.36.

### DIABETIC TREATMENT PROGRAM

The Department of Health provided, without charge, insulin to diabetics who are residents of the Province of Alberta. The program commenced in 1927, and treatment is provided through a means test upon application by the patient through his or her own physician. In 1959, the program was expanded to provide an oral hypoglycemic medication "tolbutamide" for those persons capable of being treated with this drug instead of insulin. In June, 1962, "phenformin" was included under this program for patients in whom it was demonstrated would produce better control. In November, 1965, "chlorpropamide" was added for the same reason. Several patients are being treated with combinations of these drugs.

TABLE 1
PERSONS USING INSULIN, TOLBUTAMIDE, PHENFORMIN
AND CHLORPROPAMIDE

Year	Insulin	Tolbutamide	Phenformin	Chlorpropamide	Total
1959	314	81			395
1960	334	188			522
1961	345	272			617
1962	321	362	2.2		705
1963	342	445	51		838
1964	374	478	65		917
1965	414	524	96	8	1.042
1966	365	602	135	34	1,136
1967	418	596	172	62	1, 248

In 1967, the cost of the insulin program amounted to \$20,233.24, tolbutamide \$17,644.00, phenformin \$5,387.10 and chlorpropamide \$746.00 making a total expenditure for the purchase of diabetic drugs of \$44,030.34.

### PHENYLKETONURIA PROGRAM

The Special Drug Program included the treatment of phenylketonuria in 1960. This is a congenital defect found in a very small percentage of new-born infants which results in mental deficiency if not treated early with special dietary preparations. These preparations are provided free of charge and at present thirteen patients are in receipt of such aid under this program, which cost the Division \$2,580.00.

### RHEUMATIC FEVER PROGRAM

This program was started in June, 1958 to provide penicillin free to all children with rheumatic fever up to their eighteenth birthday. For approved patients, 200,000 units of penicillin twice daily is provided. For any patients who are sensitive to penicillin, a triple sulpha preparation is provided as an alternate prophylactic in the dosage of one 7½ grain tablet twice daily. In 1967, 24 patients were receiving the triple sulpha, while 1,672 patients were receiving penicillin and the cost of the program amounted to \$6,055.00.

TABLE 2
TOTALS OF NEW APPLICATIONS
AND FOLLOW-UP SUPPLIES

Year	Application Approved and First Supply Sent	Follow-up Supplies
1958*	494	250
1959	433	1,545
1960	391	2,933
1961	383	2,708
1962	336	3,518
1963	266	3,953
1964	334	3,991
1965	352	4,322
1966	341	4,371
1967	280	4, 203
Total	3,610	31,794

<sup>\*</sup> Figures are for June 30th, 1958 to December 31st, 1958 only

#### EMERGENCY AIR AMBULANCE SERVICE

This emergency service has been in operation since 1959 and during the twelve-month period ending December 31, 1967 provided 146 flights. During the fiscal year the total cost of the program amounted to \$37,268.39. Seriously ill or injured patients in inaccessible areas are transported to hospital by chartered aircraft, usually with a physician in attendance. If the patient can be transported satisfactorily by automobile, ambulance or rail, the air service is not available. In 1967 provision was established under this Service to permit reimbursement to qualified escorts for travelling expenses.

TABLE 3
PARTICULARS CONCERNING
EMERGENCY FLIGHTS

Year	Flights	Patients	Adults	Children	Premature Infants*
1959	55	53			
1960	44	52	32	20	
1961	50	50	31	19	13
1962	76	83	50	33	14
1963	76	78	51	27	5
1964	96	107	63	44	3
1965	127	137	92	45	6
1966	109	118	90	29	5
1967	146	161	109	52	4

<sup>\*</sup> Premature infant totals included with children

### POLIOMYELITIS TREATMENT PROGRAM

Under the provisions of The Poliomyelitis Sufferers Act and Regulations, residents of Alberta who suffer from poliomyelitis and its subsequent effects may obtain such treatment services as in-hospital medical services subsequent to the fourteen-day isolation period of the acute phase, surgical services, and indicated respirator care from the day of onset of the disease. Orthopaedic appliances and other assessment procedures are also available. Occupational and out-patient speech therapy may be provided.

Poliomyelitis admissions to hospital and hospital days are as follows:

TABLE 4
HOSPITAL DAYS & ADMISSIONS, 1963-1967

Year	Isolation	Post Isolation	Respirator	Total	Admissions
1963 1964 1965 1966 1967	6 nil nil nil	5,830 4,211 3,136 3,065 2,437	6,382 5,474 5,040 4,825 4,022	12,218 9,685 8,176 7,890 6,459	216 170 134 103 80

TABLE 5
PROVINCIAL EXPENDITURES FOR POLIOMYELITIS TREATMENT SERVICES,
1963 - 1967-68

Expenditure	1963	1964	1965	1966	1967-68
Post isolation days @ 60¢ Respiratory days @ \$1.50 * Surgical procedures Medical advisor In-patient appliances Out-patient appliances Physiotherapy Muscle tests Radiology Other (Cast Room, etc.) Home care program equipment	\$ 3, 498.00 12, 764.00 22, 265, 35 2, 400.00 30, 296.91 5, 826, 39 1, 878.20 128.50 2, 812.00 170.90 334.00	\$ 2,526.60 8,895.50 21,724.95 2,400.00 20,441.69 21,358.13 1,897.00 125.50 2,946.00 236.94	\$ 1,881.60 7,560.00 14,578.20 2,400.00 8,263.84 24,442.05 1,323.20 74.00 1,404.50 80.85 4,510.55	\$ 1,839.00 7,237.50 16,014.20 2,400.00 756.37 25,990.72 21.15 8.00 8.00	\$ 1,341.00 5,473.50 18,446.00 2,400.00 723.50 34,905.51
Totals	\$82,374.25	\$82,552.31	\$66,518.79	\$54,274.94	\$70,894.91

<sup>\*</sup> The fee for Respirator Days was reduced from \$2.00 to \$1.50 per day, effective April 1, 1964

### TREATMENT SERVICES FOR SOCIAL SERVICE RECIPIENTS

The Treatment Services Act makes provision for treatment services for the Social Service Recipient Group. These services include Dental, Optical and Chiropractic, as well as certain other limited services pertaining to Physiotherapy and Podiatry, which are only provided when prior approval of the Director, Division of Medical Services is obtained. Medical services were also included under this program until June 30, 1967 when at that time the Social Service Recipients Group came under the Alberta Health Plan. Hospitalization is provided through Hospital Services pursuant to the Alberta Hospitalization Benefits Plan.

At the time the medical services were transferred to the Alberta Health Plan, it was decided to change the method of recording statistics under the Social Service Recipients Group as follows:

- 1. Government Child Wards
- 2. Aid to Dependent Children
- 3. All other Social Service Recipients

As a result of this change, the statistical tables pertaining to this program have been amended to record the information in accordance with the new breakdown.

TABLE 6
AVERAGE NUMBER OF SOCIAL SERVICE
RECIPIENTS FOR THE YEARS
1963, 1964, 1965, 1966, 1967

Year	Government Child Wards	Aid to Dependent Children	All Other Social Service Recipients	Total
1963 1964 1965 1966 1967	3,489 3,489 3,717 3,984 4,054	186 316 419 446	59,533 64,205 68,223 69,505 76,102	63,022 67,880 72,256 73,908 80,602

During the calendar year 1967, the average monthly number of Social Service Recipients in the province amounted to 80, 602, which was an increase of 6,789 over the calendar year 1966. Provincial expenditures for treatment services, on behalf of Social Service Recipients in the calendar year 1966 was \$2,941,261.67 compared to \$1,777,972.54 in 1967-68 indicating a decrease of \$1,163,289.13. The decrease in the total expenditure for 1967-68 is the result of the Alberta Health Plan taking over the payment of certain medical care expenditures as from July 1, 1967.

Including the payments which the Division of Medical Services made to the College of Physicians & Surgeons for the period April 1, 1967, until the termination of the

Agreement, June 30, 1967, the per capita expenditure for the Social Service Recipient Group during the year amounted to \$22.07, as compared to \$39.99 in the previous year. The reduction is brought about by the termination of the Agreement with the College of Physicians & Surgeons. The per capita payment to the Alberta Dental Association amounted to \$11.11 per year, and to the Alberta Chiropractic Association \$1.99. As the programs relating to Government Child Wards and Aid to Dependent Children do not include Chiropractic Services, the per capita payment is based on an average monthly number of 76,101 recipients.

TABLE 7 PROVINCIAL EXPENDITURES BY TYPE OF SERVICE FOR YEARS 1966 AND 1967-68

Type of Service	1966	1967-68	Increase or Decrease
Medical care Dental care	\$2,105,272.00 552,487,77	\$ 575,460 895,844	
Optical & optometric services Chiropractic services Other treatment services	184,582.45 97,548.45 1,371.00	164,760 141,147	
Total			2.54 -\$1,163,289.13

### 1. Medical Care for Social Service Recipients

Through an agreement between the Department of Health and the College of Physicians and Surgeons of Alberta, the practising members of the College provided complete medical care for the Social Service Recipient Group up until the agreement terminated on June 30, 1967 when the Social Service Recipients came under the Alberta Health Plan. The payment made by the Department to the College of Physicians and Surgeons amounted to \$30.00 per capita per year, and this payment was deposited in the "Pensioners' Medical Fund", which was administered by the College of Physicians and Surgeons. Administrative costs of this program, by the College of Physicians and Surgeons, was considered to be 4% of the assessed value.

Physicians' accounts were assessed according to the Schedule of Fees of the College of Physicians and Surgeons, and initial payment, based on 50% of the minimum fees, is made. The remainder of the fund was pro-rated upon termination of the agreement, in June 1967, according to the assessed value of the accounts submitted and a final payment was awarded in 1967. The province paid the College of Physicians and Surgeons \$575,460.00 for medical services for the period April to June, as compared to an expenditure of \$2,105,272.00 for the entire year of 1966.

TABLE 8
SOCIAL SERVICE RECIPIENTS MEDICAL SERVICES UTILIZATION
April 1, 1967 - June 30, 1967

	Recipie	ent	Spouse		Child	
Type of Service	No. of Services	Fee	No. of Services	Fee	No. of Services	Fee
ROUP "A"						
ffice						
First	1,862	\$ 15,369.00	246	\$ 2,292.00	80	737.00
Minor	6,943	32,798.00	1,101	5, 249.00	551	2,692.00
Repeat	12,271	34,448.00	1,537	4,509.00	335	1,034.00
Referred	190	860.00	28	145.00	1	5.00
Routine Medical	184	669.00	12	71.00	8	45.00
	2,910	14,093.00	121	611.00	26	145.00
ouse	1,134	10,233.00	96	714.00	53	433,00
N.H.E.	53	412.00	,		_	
etention Fee			3, 151	6,924.00	601	1,481.00
lospital, Active	45,681	89,771.50	245	671.50	8	36.00
Referred	1,837	6,661.00	178	324.00		30.00
Chronic	10,447	18,846.30		324,00	_	_
lileage	67	367.00	-	FR 00	_	24 00
Certificate	74	311.00	7	58.00	4	24.00
Consultation	1,219	16,612,00	117	1,759.00	31	420.00
aboratory	5,790	14, 179.00	893	2,189.00	130	292, 50
linor Procedures	781	1,064.00	69	152.00	6	5.00
Obst. & Gyn.	60	4,508.00	21	1,600.00	5	155.00
General Surgery	1,185	35,867.82	131	4,517.00	62	1,083.00
Ortho. Surgery	294	20,201.00	59	1,890.50	10	327.50
Neuro. Surgery	29	955.00	1	30.00	1	30.00
Trology Surgery	318	13, 195.50	17	1,030.00	5	45.00
Otolaryngology	145	1,499.00	30	472.00	31	609.00
	798	17,784.50	98	1,861.00	44	712.00
Cye	17	1, 290.00	3	400.00	2	150.00
Plastic Surgery					9	
nternal Medicine	1,043	8, 193, 50	127	927.50		105.00
sychiatry	180	1,601.00	19	134.50	32	305.00
Paediatrics	-			-	7	78.00
Dermatology	344	1,070.00	20	95.00	67	197.50
Physiatry	3	45.00	-	-	-	-
-ray	2,581	28,321,83	361	4,325.00	115	1,104.00
Anaesthesia	713	19,359.50	70	2,139.00	26	505.00
Surgical Assistant	168	3,793.00	21	513.00	3	60.00
	99,321	\$414,378.45	8,779	\$45,603.00		
					2, 253	\$12,815.50
Total Average cost per serv Average cost per indiv	ice	\$4.17 \$4.78	0,,17	\$5.19 \$4.07	,	\$5.69 \$3.37
Average cost per serv	ice	\$4.17	,,,,,	\$5.19		\$5.69
Average cost per serv Average cost per indiv GROUP "B"	ice	\$4.17	3,117	\$5.19		\$5.69
Average cost per serv Average cost per indiv GROUP "B"	ice ridual covered	\$4.17 \$4.78		\$5, 19 \$4, 07		\$5.69 \$3.37
Average cost per serv Average cost per indiv GROUP "B" Office First	ridual covered	\$4.17 \$4.78 \$5,060.00	138	\$5.19 \$4.07 \$1,234.00	100	\$5.69 \$3.37 \$ 907.67
Average cost per serv Average cost per indiv GROUP "B" Office First Minor 1	ice ridual covered 681 2,756	\$4.17 \$4.78 \$5,060.00 12,664.00	138 789	\$5.19 \$4.07 \$1,234.00 4,078.00	100	\$5.69 \$3.37 \$ 907.67 4,709.00
Average cost per serv Average cost per indiv GROUP "B" Office First Minor 1 Repeat	681 2,756 5,036	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00	138 789 1,121	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00	100 943 592	\$5,69 \$3,37 \$ 907.67 4,709.00 1,684.00
everage cost per serv everage cost per indiv everage cost per indiv everage cost Office First Minor 1 Repeat Referred	681 2,756 5,036 78	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00	138 789 1,121 4	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00	100 943 592 4	\$5.69 \$3.37 \$ 907.67 4,709.00 1,684.00 20.00
Average cost per serv Average cost per indiv GROUP "B" Office First Minor 1 Repeat Referred Routine Medical	681 2,756 5,036 78	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00	138 789 1,121 4 9	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00	100 943 592 4 16	\$5.69 \$3.37 \$ 907.67 4,709.00 1,684.00 20.00 75.00
Average cost per serv Average cost per indiv GROUP "B" Office First Minor 1 Repeat Referred Routine Medical House	681 2,756 5,036 78 59 423	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00	138 789 1,121 4 9	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00	100 943 592 4 16	\$5.69 \$3.37 \$ 907.67 4,709.00 1,684.00 20.00 75.00 351.00
overage cost per servaverage cost per indiverse cos	681 2,756 5,036 78 59 423 273	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00	138 789 1,121 4 9 82 63	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00	100 943 592 4 16 70 59	\$5.69 \$3.37 \$ 907.67 4,709.00 1,684.00 20.00 75.00 351.00
exverage cost per serv exverage cost per individual cost per indiv	681 2,756 5,036 78 59 423 273 43	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00	138 789 1,121 4 9 82 63 2	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00	100 943 592 4 16 70 59	\$ 907.67 4,709.00 1,684.00 20.00 75.00 351.00 593.67
Average cost per serviverage cost per indiverse cos	681 2,756 5,036 78 59 423 273 43 10,765	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50	138 789 1,121 4 9 82 63 2 1,849	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00	100 943 592 4 16 70 59	\$ 907.67 4,709.00 1,684.00 20.00 75.00 351.00 593.67 5,00
overage cost per serviverage cost per individual description of the service of th	681 2,756 5,036 78 59 423 273 43 10,765 560	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50	138 789 1,121 4 9 82 63 2 1,849	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00	100 943 592 4 16 70 59	\$ 907.67 4,709.00 1,684.00 20.00 351.00 593.67 5,00 2,938.00
Average cost per serviverage cost per indiverse cos	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00	138 789 1,121 4 9 82 63 2 1,849 22 73	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00	100 943 592 4 16 70 59 1	\$5.69 \$3.37 \$ 907.67 4,709.00 1,684.00 20.00 75.00 351.00 593.67 5.00 2,938.00 249.50
Average cost per serv verage cost per indiv GROUP "B"  Office First Minor 1 Repeat Referred Routine Medical Iouse N. H. E. Oetention Fee Iospital, Active Referred Chronic	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50	138 789 1,121 4 9 82 63 2 1,849	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00	100 943 592 4 16 70 59 1 1,005	\$5.69 \$3.37 \$ 907.67 4,709.00 1,684.00 20.00 75.00 351.00 593.67 5.00 2,938.00 249.50
Average cost per serviverage cost per individual cost per individu	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00	138 789 1,121 4 9 82 63 2 1,849 22 73	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00	100 943 592 4 16 70 59 1 1,005 86	\$ 907.67 4,709.00 1,684.00 20.00 351.00 593.67 5.00 2,938.00 249.50
Average cost per serviverage cost per individual description of the service of th	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00	100 943 592 4 16 70 59 1 1,005 86 7	\$ 907.67 4,709.00 1,684.00 75.00 351.00 593.67 5.00 2,938.00 249.50 14.00
Average cost per serviverage cost per individual cost per individu	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 2,445.00 22,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00 92.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00	100 943 592 4 16 70 59 1 1,005 86 7	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 351.00 593.67 5.00 2,938.00 249.50 14.00 636.00
Average cost per serv Average cost per indiv AROUP "B"  Office First Minor 1 Repeat Referred Routine Medical Iouse N. H. E. Oetention Fee Iospital, Active Referred Chronic Mileage Certificate Consultation Laboratory	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24 477	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00 92.00 6,535.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 28.00 1,156.00 1,289.50	100 943 592 4 16 70 59 1 1,005 86 7 1 1 46 325	\$ 907.67 4,709.00 1,684.00 20.00 351.00 593.67 5.00 2,938.00 249.50 14.00 636.00 774.50
Average cost per serv Average cost per indiv Average First Minor I Repeat Referred Routine Medical House N, H, E, Detention Fee Hospital, Active Referred Chronic Average	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24 477 2,000 331	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 2,445.00 21,595.50 1,824.50 3,504.00 109.00 92.00 6,535.00 5,176.00 499.50	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 28.00 1,156.00 1,289.50 80.00	100 943 592 4 16 70 59 1 1,005 86 7 1 1 46 325	\$ 907.67 4,709.00 1,684.00 20.00 75.00 351.00 2,938.00 249.50 14.00 636.00 774.50 50.00
Average cost per serviverage cost per indiviverage cost per indiviverage cost per indiviverage cost per indiviverage first minor large at Referred Routine Medical louse N. H. E., betention Fee Hospital, Active Referred Chronic Alleage Certificate Consultation aboratory Minor Procedures bbst. & Gyn.	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24 477 2,000 331 29	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00 92.00 6,535.00 5,176.00 499.50 2,665.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2 2 4 83 464 42 55	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 1,156.00 1,289.50 80.00 4,513.00	100 943 592 4 16 70 59 1 1,005 86 7 1 1 46 325 44	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 351.00 593.67 5.00 2,938.00 249.50 14.00 636.00 774.50 50.00
everage cost per serv everage cost per indiv everage cost per indiv everage cost per indiv everage cost per indiv everage ever	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24 477 2,000 331 29 374	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 55	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 28.00 1,156.00 1,289.50 80.00 4,513.00 3,090.50	100 943 592 4 16 70 59 1 1,005 86 7 1 1 46 325 44 11	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 351.00 593.67 5.00 2,938.00 249.50 14.00 636.00 774.50 50.00 405.00 1,363.00
ROUP "B"  GROUP "B"  Office First Minor I Repeat Referred Routine Medical Couse N. H. E. Detention Fee Cospital, Active Referred Chronic fileage certificate Consultation aboratory dinor Procedures Obst. & Gyn. eieneral Surgery ortho. Surgery	681 2,756 5,036 78 59 423 273 43 10,765 2,070 78 24 477 2,000 331 29 374 108	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 55 107	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 28.00 1,156.00 1,289.50 80.00 4,513.00 3,090.50 915.00	100 943 592 4 16 70 59 1 1,005 86 7 1 46 325 44 11	\$ 907.67 4,709.00 1,684.00 20.00 75.00 351.00 2,938.00 249.50 14.00 636.00 774.50 50.00 405.00 1,363.00 1,197.50
everage cost per serv everage cost per indiv everage cost per indiv everage cost per indiv everage cost per indiv everage ever	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24 477 2,000 331 29 374 108 17	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 555 107	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 1,156.00 1,289.50 80.00 4,513.00 3,990.50 915.00	100 943 592 4 16 70 59 1 1,005 86 7 1 1 46 325 44 11 55 26	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 351.00 593.67 5.00 2,938.00 249.50 14.00 636.00 774.50 50.00 405.00 1,363.00 1,197.50
ROUP "B"  office First Minor I Repeat Referred Routine Medical clouse N. H. E, etention Fee clospital, Active Referred Chronic fileage certificate consultation caboratory finor Procedures bist, & Gyn. eteneral Surgery ortho, Surgery rology Surgery rology Surgery	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24 477 2,000 331 29 374 108 17	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00 1,380.00 3,551.49	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 55 107 11	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 28.00 1,156.00 1,289.50 80.00 4,513.00 3,090.50 915.00 100.00 295.00	100 943 592 4 16 70 59 1 1,005 86 7 1 46 325 44 11 55 26	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 351.00 593.67 5.00 2,938.00 249.50 14.00 636.00 774.50 50.00 405.00 1,197.50 5.00
ROUP "B"  ffice First Minor I Repeat Referred Routine Medical ouse N. H. E. etention Fee ospital, Active Referred Chronic fileage ertificate consultation aboratory tinor Procedures bist, & Gyn. eneral Surgery euro. Surgery euro. Surgery trology Surgery ttolaryngology	681 2,756 5,036 78 59 423 273 43 10,765 2,070 78 24 477 2,000 331 29 374 108 17 99 33	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00 3,551.49 1,087.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 555 107 11 1 1	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 28.00 1,156.00 1,289.50 80.00 4,513.00 3,990.50 915.00 295.00 296.00	100 943 592 4 16 70 59 1 1,005 86 7 1 46 325 44 11 55 26 1	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 75.00 351.00 2,938.00 249.50 14.00 636.00 774.50 50.00 405.00 1,363.00 1,197.50 5.00 1,657.50
ROUP "B"  First Minor I Repeat Referred Routine Medical fouse N.H.E. vetention Fee forpital, Active Referred Chronic fileage ertificate consultation aboratory finor Procedures bbst. & Gyn. ieneral Surgery vetolaryngology vive	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24 477 2,000 331 29 374 108 17 99 33 223	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00 3,561.49 1,087.00 3,826.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 555 107 11 15 9 47	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 1,156.00 1,289.50 80.00 4,513.00 3,090.50 915.00 295.00 296.00 467.00	100 943 592 4 16 70 59 1 1,005 86 7 1 1 46 325 44 11 55 26	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 75.00 351.00 2,938.00 249.50 14.00 636.00 774.50 50.00 405.00 1,363.00 1,197.50 5.00 1,657.50
ROUP "B"  Office First Minor I Repeat Referred Routine Medical clouse N.H.E. etention Fee clospital, Active Referred Chronic fileage certificate consultation caboratory finor Procedures bist. & Gyn. eteneral Surgery relogy Surgery trology Surgery trology Surgery trolaryngology cye clastic Surgery elestic Surgery elestic Surgery elestic Surgery elestic Surgery	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24 477 2,000 331 29 374 108 17 99 33 223 8	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00 1,380.00 3,551.49 1,087.00 3,826.00 770.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 555 107 11 15 9 47 3	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 28.00 1,156.00 1,289.50 80.00 4,513.00 3,990.50 915.00 295.00 296.00	100 943 592 4 16 70 59 1 1,005 86 7 1 46 325 44 11 55 26 1	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 351.00 593.67 5.00 2,938.00 249.50 14.00 636.00 774.50 50.00 405.00 1,363.00 1,197.50 5.00 1,657.50 1,657.50
ROUP "B"  First Minor I Repeat Referred Routine Medical Guse N. H. E. Petention Fee fospital, Active Referred Chronic fileage certificate consultation aboratory finor Procedures Dist. & Gyn. ieneral Surgery frology Surgery frology Surgery trology Surgery trology Surgery trology Surgery plastic Surgery protection of the surgery procedures Dist. & Gyn. ieneral Surgery frology Surgery frology Surgery frology Surgery trology Surgery frology Surgery	681 2,756 5,036 78 59 423 273 43 10,765 5,000 2,070 78 24 477 2,000 331 29 374 108 17 99 33 223 8	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00 3,551.49 1,087.00 3,826.00 770.00 2,317.50	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 55 107 11 1 15 9 47 3 46	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 1,156.00 1,289.50 80.00 4,513.00 3,090.50 915.00 295.00 296.00 467.00	100 943 592 4 16 70 59 1 1,005 86 7 1 1 46 325 44 11 55 26	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 351.00 593.67 5.00 2,938.00 249.50 14.00 636.00 774.50 50.00 405.00 1,197.50 50.00 1,657.50 1,657.50
ROUP "B"  First Minor I Repeat Referred Routine Medical Guse N. H. E. Petention Fee fospital, Active Referred Chronic fileage certificate consultation aboratory finor Procedures Dist. & Gyn. ieneral Surgery frology Surgery frology Surgery trology Surgery trology Surgery trology Surgery plastic Surgery protection of the surgery procedures Dist. & Gyn. ieneral Surgery frology Surgery frology Surgery frology Surgery trology Surgery frology Surgery	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24 477 2,000 331 29 374 108 17 99 33 223 8	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00 1,380.00 3,551.49 1,087.00 3,826.00 770.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 555 107 11 15 9 47 3	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 28.00 1,156.00 1,289.50 80.00 4,513.00 3,990.50 915.00 295.00 296.00 467.00 150.00	100 943 592 4 16 70 59 1 1,005 86 7 1 46 325 44 11 55 26 1 9 46 71	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 75.00 351.00 2,938.00 249.50 14.00 636.00 774.50 5.00 405.00 1,363.00 1,197.50 5.00 1,657.50 1,454.00 305.00 115.00
everage cost per serv everage cost per indiv everage cost per indiv everage cost per indiv everage cost per indiv everage ever	681 2,756 5,036 78 59 423 273 43 10,765 5,000 2,070 78 24 477 2,000 331 29 374 108 17 99 33 223 8	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00 3,551.49 1,087.00 3,826.00 770.00 2,317.50	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 55 107 11 1 15 9 47 3 46	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 28.00 1,156.00 1,289.50 80.00 4,513.00 3,090.50 915.00 100.00 295.00 296.00 467.00	100 943 592 4 16 70 59 1 1,005 86 7 1 1 46 325 44 11 55 26 1 9 46 71 3	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 351.00 593.67 5.00 2,938.00 249.50 14.00 636.00 774.50 50.00 405.00 1,363.00 1,197.50 5.00 1,657.50 1,657.50 1,454.00
ROUP "B"  GROUP "B"  Office First Minor I Repeat Referred Routine Medical  Constitute of the service of the ser	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24 477 2,000 331 29 374 108 17 99 33 223 8 269 282	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00 3,351.49 1,087.00 2,317.50 2,172.50	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 55 107 11 1 15 9 47 3 46 49 -	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 28.00 1,289.50 80.00 4,513.00 3,090.50 915.00 100.00 295.00 467.00 150.00 491.00 405.00	100 943 592 4 16 70 59 1 1,005 86 7 1 1 46 325 44 11 55 26 1 9 46 71 3	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 351.00 593.67 5.00 2,938.00 249.50 14.00 636.00 774.50 50.00 1,363.00 1,197.50 50.00 1,657.50 1,454.00 305.00 115.00 80.00
ROUP "B"  First Minor I Repeat Referred Routine Medical Guse N. H. E., Jetention Fee fospital, Active Referred Chronic fileage certificate consultation aboratory finor Procedures Obst. & Gyn. Jeneral Surgery Jeturo. Surger	681 2,756 5,036 78 59 423 273 43 10,765 5,000 2,070 78 24 477 2,000 331 29 374 108 17 99 33 223 8 269 282 1 297	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00 3,551.49 1,087.00 3,826.00 770.00 2,317.50 2,172.50 10.00 633.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 555 107 11 1 1 15 9 47 3 46 49	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 28.00 1,156.00 1,289.50 80.00 4,513.00 3,990.50 915.00 295.00 296.00 467.00 150.00	100 943 592 4 16 70 59 1 1,005 86 7 1 46 325 44 11 55 26 1 9 46 71 3 11 8 8 12	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 75.00 351.00 2,938.00 249.50 14.00 636.00 774.50 5.00 405.00 1,363.00 1,197.50 5.00 1,657.50 1,454.00 305.00 115.00
everage cost per serv everage cost per indiv everage evera	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24 477 2,000 331 29 374 108 17 99 33 223 8 269 282 1 297 6	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00 1,380.00 3,551.49 1,087.00 3,826.00 770.00 2,317.50 10.00 633.00 90.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 55 107 11 15 9 47 3 46 49 - 82	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 1,156.00 1,289.50 80.00 4,513.00 3,090.50 915.00 100.00 295.00 296.00 467.00 150.00 491.00	100 943 592 4 16 70 59 1 1,005 86 7 1 1 46 325 44 11 55 26 1 9 46 71 3 11 8 12	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 351.00 593.67 5.00 2,938.00 249.50 14.00 636.00 774.50 50.00 1,363.00 1,197.50 5.00 1,657.50 1,657.50 1,454.00 305.00 115.00 80.00 131.00
ROUP "B"  First Minor I Repeat Referred Routine Medical louse N. H. E. Detention Fee Cospital, Active Referred Chronic fileage certificate consultation aboratory finor Procedures bust, & Gyn. eieneral Surgery central Surgery forlogy Surgery problem of the service of the servi	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24 477 2,000 331 29 374 108 17 99 33 223 8 269 282 1 297 6 1,028	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00 1,380.00 3,551.49 1,087.00 3,551.49 1,087.00 2,317.50 2,172.50 10.00 633.00 90.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 55 107 11 1 15 9 47 3 46 49 - 82 210	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 28.00 1,289.50 80.00 4,513.00 3,090.50 915.00 100.00 295.00 467.00 150.00 491.00 405.00	100 943 592 4 16 70 59 1 1,005 86 7 1 1 46 325 44 11 55 26 1 9 46 71 3 11 8 12 115	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 351.00 593.67 5.00 2,938.00 249.50 14.00 636.00 774.50 50.00 1,363.00 1,197.50 1,657.50 1,454.00 305.00 115.00 80.00 131.00 381.50
ROUP "B"  First Minor I Repeat Referred Routine Medical Guse N. H. E., Jetention Fee fospital, Active Referred Chronic fileage certificate consultation aboratory finor Procedures Obst. & Gyn. Jeneral Surgery Jeturo. Surger	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24 477 2,000 331 29 374 108 17 99 33 223 8 269 282 1 297 6	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00 1,380.00 3,551.49 1,087.00 3,826.00 770.00 2,317.50 10.00 633.00 90.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 55 107 11 15 9 47 3 46 49 - 82	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 28.00 1,156.00 1,289.50 80.00 4,513.00 3,090.50 915.00 296.00 467.00 150.00 491.00 405.00 189.00 2,236.50	100 943 592 4 16 70 59 1 1,005 86 7 1 1 46 325 44 11 55 26 1 9 46 71 3 11 8 8 12 11 8 8	\$5.69 \$3.37 \$907.67 4,709.00 1,684.00 20.00 75.00 351.00 2,938.00 249.50 14.00 636.00 774.50 50.00 405.00 1,363.00 1,197.50 1,657.50 1,454.00 305.00 115.00 80.00 311.00 381.50
verage cost per serv verage cost per indiv ROUP "B"  ffice     First     Minor 1     Repeat     Referred     Routine Medical ouse     N. H. E. etention Fee ospital, Active     Referred     Chronic illeage     ertificate onsultation aboratory tinor Procedures bst. & Gyn. eneral Surgery rtho. Surgery euro. Surgery euro. Surgery tolaryngology ye lastic Surgery tolaryngology ye ternal Medicine sychiatry aediatrics ermatology hysiatry -ray naesthesia urgical Assistant	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24 477 2,000 331 29 374 108 17 99 33 223 8 269 282 1 297 6 1,028 300 58	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00 1,380.00 3,551.49 1,087.00 3,826.00 770.00 2,317.50 2,172.50 10.00 633.00 90.00 11,135.50 8,036.00 1,271.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 55 107 11 1 15 9 47 3 46 49 - 82 - 210 112 18	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 28.00 1,156.00 1,289.50 80.00 4,513.00 3,090.50 915.00 100.00 295.00 467.00 150.00 491.00 495.00 189.00 2,645.00 2,236.50 528.00	100 943 592 4 16 70 59 1 1,005 86 7 1 46 325 44 11 55 26 1 9 46 71 3 11 8 8 12 115	\$ 907.67 4,709.00 1,684.00 20.00 75.00 351.00 2,938.00 249.50 14.00 636.00 774.50 50.00 405.00 1,363.00 1,197.50 1,657.50 1,454.00 1,657.50 1,454.00 115.00 80.00 381.50
verage cost per serv verage cost per serv verage cost per indiv  ROUP "B"  Iffice First Minor I Repeat Referred Routine Medical ouse N. H. E. letention Fee lospital, Active Referred Chronic fileage leterificate lileage leterificate lossultation laboratory linor Procedures libst. & Gyn. leneral Surgery relogy Surgery relogy Surgery rology Surgery rology Surgery tolaryngology lye lastic Surgery	681 2,756 5,036 78 59 423 273 43 10,765 560 2,070 78 24 477 2,000 331 29 374 108 17 99 33 223 8 269 282 1 297 6 1,028 300 58	\$4.17 \$4.78 \$5,060.00 12,664.00 14,029.00 336.00 147.00 2,065.00 2,445.00 347.00 21,595.50 1,824.50 3,504.00 109.00 92.00 6,535.00 5,176.00 499.50 2,665.00 12,225.84 7,018.00 3,551.49 1,087.00 3,826.00 770.00 2,317.50 2,172.50 10.00 633.00 90.00 11,135.50 8,036.00	138 789 1,121 4 9 82 63 2 1,849 22 73 2 4 83 464 42 55 107 11 1 15 9 47 3 46 49 - 82 - 210 112	\$5.19 \$4.07 \$1,234.00 4,078.00 3,103.00 20.00 51.00 393.00 473.00 17.00 3,783.00 82.00 144.00 28.00 1,156.00 1,289.50 80.00 4,513.00 3,090.50 915.00 296.00 467.00 150.00 491.00 405.00 189.00 2,236.50	100 943 592 4 16 70 59 1 1,005 86 7 1 1 46 325 44 11 55 26 1 9 46 71 3 11 8 8 12 11 8 8	\$5.69 \$3.33 \$907.67 4,709.00 1,684.00 20.00 75.00 351.00 2,938.00 249.50 14.00 636.00 774.55 50.00 405.00 1,363.00 1,197.50 1,657.50 1,454.00 305.00 115.00 80.00 131.00 381.50

TABLE 8
SOCIAL SERVICE RECIPIENTS MEDICAL SERVICES UTILIZATION
April 1, 1967 - June 30, 1967

	Recipi	ent	Spor	use	Ch	ild
ype of Service	No. of Services	Fee	No. of Services	Fee	No. of Services	Fee
ROUP "C"						
Office						
First	698	\$ 5,778.00	13	\$ 118.00	550	\$ 5,030.00
Minor 1	2,585	12,181.00	30	149.00	3,410	16,321.00
Repeat	2, 420	7,010.00	64	208.00	1,944	5,907.00
Referred	19	95.00	1	5.00	11	55.00
Routine Medical	44	343.00	1	3.00	44	205.00
louse	145	814.00	2	14.00	363	1,671.00
N.H.E.	150	1,389.00	2	20.00	257	2,420.00
Detention Fee	32	225.00	-	-	15	75.00
Hospital, Active	2,173	5, 299.50	112	254.50	3,051	8,552.00
Referred	114	477.00	-		293	888.00
Chronic	90	181.00	23	46.00	2	4,00
Mileage	1	5,00	-	-	11	17.00
Certificate	13	98.00	-	227 00	27	110.00
Consultation	290	3,657.00	13	237.00	286	3,457.00
Laboratory	1,996	5, 239. 50	78	173.50	1, 223	2,799.50
Minor Procedures	256	328.00	22	23.00	105	172.00
Obst. & Gyn.	293	16, 103.00	1 4	200.00	48 320	1,119.00 5,863.00
General Surgery	252	9,304.00	1	10.00	52	1,962.00
Ortho. Surgery	54	2,448.50	1 -	10.00	15	305.00
Neuro, Surgery	17	460.00 370.00	2	40.00	41	1,212.50
Jrology Surgery	26	585.00		40.00	200	5,551.50
Otolaryngology	168	2,169.00	5	50.00	339	4, 217. 00
Eye	5	2, 169, 00	-	50.00	7	600.00
Plastic Surgery	129	1,098.50	4	30.00	50	513.00
nternal Medicine Psychiatry	354	3,064.17	-	-	118	998.00
Paediatrics	3	34.00	_	_	97	1,018.00
Dermatology	215	684.50	13	19.50	454	1,246.50
Physiatry	1	15.00		_	-	-
X-ray	720	9,046.50	5	40.00	572	5,468.50
Anaesthesia	352	7, 242. 50	3	100.00	293	5, 269.00
		1,253.00	1	20.00	19	416.00
Surgical Assistant	53					
Surgical Assistant			400	\$1 000 50	14 217	\$83 442 50
Surgical Assistant Fotal	13,701	\$97,242.67	400	\$1,990.50	14, 217	\$83,442.50
	13,701		400	\$1,990.50 \$4.98 \$8.51	14, 217	\$83,442.50 \$5.88 \$1.63
Total Average cost per serv	13,701	\$97, 242. 67 \$7. 09	400	\$4.98	14, 217	\$5,88
Fotal Average cost per serv Average cost per indiv	13,701	\$97, 242. 67 \$7. 09	400	\$4.98	14, 217	\$5,88
Fotal Average cost per serv Average cost per indiv	13,701 ice idual covered	\$97,242.67 \$7.09 \$5.36	400	\$4.98	14, 217	\$5,88
Total  Average cost per serv  Average cost per indiv  GROUP "D"	13,701 ice ridual covered	\$97,242.67 \$7.09 \$5.36 \$2,599.00	400	\$4.98	14, 217	\$5,88
Total  Average cost per serv  Average cost per indiv  GROUP "D"  Office	13,701 ice ridual covered	\$97,242.67 \$7.09 \$5.36 \$2,599.00 4,787.00	400	\$4.98	14,217	\$5,88
Total  Average cost per serv Average cost per indiv GROUP "D"  Office First	13,701 ice ridual covered	\$97,242.67 \$7.09 \$5.36 \$2,599.00	400	\$4.98	14, 217	\$5,88
Total  Average cost per serv Average cost per indiv  GROUP "D"  Office First Minor 1	13,701 ice ridual covered 330 1,047 722	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D" Office First Minor 1 Repeat Referred Routine Medical	13,701 ice ridual covered 330 1,047 722 - 133	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 576.00	400	\$4.98	14,217	\$5,88
Total  Average cost per serv  Average cost per indiv  GROUP "D"  Office First Minor l Repeat Referred Routine Medical  House	13,701 ice idual covered 330 1,047 722 - 133 226	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 	400	\$4.98	14,217	\$5,88
Total  Average cost per serv Average cost per indiv  GROUP "D"  Office     First     Minor 1     Repeat     Referred     Routine Medical House     N. H. E.	13,701 ice ridual covered 330 1,047 722 	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 576.00 1,433.00 843.00	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D" Office First Minor l Repeat Referred Routine Medical House N. H. E. Detention Fee	13,701 ice ridual covered  330 1,047 722 - 133 226 84 6	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 576.00 1,433.00 843.00 45.00	400	\$4.98	14,217	\$5,88
Total  Average cost per serv Average cost per indiv GROUP "D"  Office First Minor l Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active	13,701 ice idual covered  330 1,047 722	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D" Office First Minor 1 Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active	13,701 ice ridual covered  330 1,047 722 - 133 226 84 6 1,451 115	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 576.00 1,433.00 43.00 45.00 3,377.00 438.00	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D" Office First Minor l Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic	13,701 ice ridual covered  330 1,047 722 - 133 226 84 6 1,451 115 20	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D" Office First Minor I Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage	13,701 ice idual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D"  Office First Minor 1 Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate	13,701 ice ridual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2 7	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 576.00 1,433.00 45.00 3,377.00 438.00 40.00 39.00	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D" Office First Minor l Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation	13,701 ice idual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2 7 127	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D"  Office First Minor l Repeat Referred Routine Medical House N.H.E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory	13,701 ice idual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2 7 127 301	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D" Office First Minor l Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures	13,701 ice ridual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2 7 127 301 31	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 576.00 1,433.00 45.00 3,377.00 438.00 40.00 	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D"  Office First Minor l Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn	13,701 ice idual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2 7 127 301 31	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D"  Office First Minor l Repeat Referred Routine Medical House N.H.E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn General Surgery	13,701 ice idual covered  330 1,047 722 - 133 226 84 6 6 1,451 115 20 2 7 127 301 31 9 132	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D"  Office First Minor l Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn General Surgery Ortho. Surgery	13,701 ice ridual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2 7 127 301 31 9 132 23	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per serv Average cost per indiv GROUP "D"  Office First Minor I Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn General Surgery Ortho. Surgery Neuro. Surgery	13,701 ice idual covered  330 1,047 722 - 133 226 84 6 6 1,451 115 20 2 7 127 301 31 9 132	\$97,242.67 \$7.09 \$5.36  \$ 2,599.00 4,787.00 2,031.00  576.00 1,433.00 843.00 45.00 3,377.00 438.00 40.00 785.90 97.00 660.00 2,442.00 1,325.00	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D"  Office First Minor l Repeat Referred Routine Medical House N.H.E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn General Surgery Ortho. Surgery Neuro. Surgery Urology Surgery	13,701  ice idual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2 7 127 301 31 9 132 23 17	\$97,242.67 \$7.09 \$5.36  \$ 2,599.00 4,787.00 2,031.00	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv Average cost per indiv BROUP "D"  Office First Minor 1 Repeat Referred Routine Medical House N.H.E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn General Surgery Ortho. Surgery Verro. Surgery Urology Surgery Otolaryngology	13,701  ice idual covered  330 1,047 722 - 133 226 84 6 6 1,451 115 20 2 7 127 301 31 9 132 23 17 19	\$97,242.67 \$7.09 \$5.36 \$ 2,599.00 4,787.00 2,031.00 1,433.00 843.00 45.00 3,377.00 438.00 40.00 1,724.00 1,724.00 785.90 97.00 660.00 2,442.00 1,325.00 1,185.00 505.00	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D"  Office First Minor I Repeat Referred Routine Medical House N.H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn General Surgery Ortho. Surgery Urology Surgery Urology Surgery Otolaryngology Eye	13,701 ice ridual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2 7 127 301 31 9 132 23 17 19 56	\$97,242.67 \$7.09 \$5.36  \$ 2,599.00 4,787.00 2,031.00  576.00 1,433.00 843.00 45.00 3,377.00 438.00 40.00 785.90 97.00 660.00 2,442.00 1,325.00 1,185.00 505.00 1,174.50	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D"  Office First Minor l Repeat Referred Routine Medical House N.H.E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn General Surgery Ortho, Surgery Urology Surgery Urology Surgery Utology Surgery Eye Plastic Surgery	13,701  ice idual covered  330 1,047 722	\$97,242.67  \$7.09 \$5.36  \$2,599.00 4,787.00 2,031.00  576.00 1,433.00 843.00 45.00 3,377.00 438.00 40.00 1,724.00 785.90 97.00 660.00 2,442.00 1,325.00 1,185.00 505.00 1,174.50 1,582.00 460.00 140.00	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per serv Average cost per indiv GROUP "D"  Office First Minor l Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn General Surgery Ortho. Surgery Urology Surgery Urology Surgery Otolaryngology Eye Plastic Surgery Internal Medicine	13,701 ice idual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2 7 127 301 31 9 132 23 17 19 56 118	\$97,242.67 \$7.09 \$5.36  \$ 2,599.00 4,787.00 2,031.00	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D"  Office First Minor I Repeat Referred Routine Medical House N.H.E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn General Surgery Ortho. Surgery Urology Surgery Urology Surgery Urology Surgery Otolaryngology Eye Plastic Surgery Internal Medicine Psychiatry	13,701 ice idual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2 7 127 301 31 9 132 23 17 19 56 118 6 12	\$97,242.67  \$7.09 \$5.36  \$2,599.00 4,787.00 2,031.00  576.00 1,433.00 843.00 45.00 3,377.00 438.00 40.00 1,724.00 785.90 97.00 660.00 2,442.00 1,325.00 1,185.00 505.00 1,174.50 1,582.00 460.00 140.00	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D"  Office First Minor I Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn General Surgery Ortho, Surgery Urology Surgery Urology Surgery Urology Surgery Urology Surgery Internal Medicine Psychiatry Paediatrics	13,701  ice idual covered  330 1,047 722	\$97,242.67  \$7.09 \$5.36  \$2,599.00 4,787.00 2,031.00  576.00 1,433.00 843.00 45.00 3,377.00 438.00 40.00 1,724.00 785.90 97.00 660.00 2,442.00 1,325.00 1,185.00 1,174.50 1,582.00 460.00 1,40.00 3,186.00	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D"  Office First Minor l Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn General Surgery Ortho. Surgery Virology Surgery Virology Surgery Otolaryngology Eye Plastic Surgery Internal Medicine Psychiatry Paediatrics Dermatology	13,701 ice idual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2 7 127 301 31 9 132 23 17 19 56 118 6 12 361 166	\$97,242.67  \$7.09 \$5.36  \$2,599.00 4,787.00 2,031.00	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D"  Office First Minor I Repeat Referred Routine Medical House N.H.E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn General Surgery Ortho. Surgery Urology Surg	13,701 ice idual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2 7 127 301 31 9 132 23 17 19 56 118 6 12 361 166	\$97,242.67  \$7.09 \$5.36  \$2,599.00 4,787.00 2,031.00	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D"  Office First Minor l Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn General Surgery Ortho. Surgery Virology Surgery Virology Surgery Otolaryngology Eye Plastic Surgery Internal Medicine Psychiatry Paediatrics Dermatology	13,701 ice idual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2 7 127 301 31 9 132 23 17 19 56 118 6 12 361 166 107 - 200 122	\$97,242.67  \$7.09 \$5.36  \$2,599.00 4,787.00 2,031.00  576.00 1,433.00 843.00 45.00 3,377.00 438.00 40.00 1,724.00 785.90 97.00 660.00 2,442.00 1,325.00 1,185.00 505.00 1,174.50 1,582.00 460.00 1,703.00 435.00 2,087.00 2,987.00 2,987.00	400	\$4.98	14,217	\$5,88
Average cost per serv Average cost per indiv GROUP "D"  Office First Minor I Repeat Referred Routine Medical House N.H.E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn General Surgery Ortho, Surgery Urology Surgery Urology Surgery Urology Surgery Urology Surgery Urology Surgery Internal Medicine Psychiatry Paediatrics Dermatology Physiatry Physiatry Physiatry Physiatry Pyreriadia Process Proc	13,701 ice idual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2 7 127 301 31 9 132 23 17 19 56 118 6 12 361 166 107 200	\$97,242.67  \$7.09 \$5.36  \$2,599.00 4,787.00 2,031.00	400	\$4.98	14,217	\$5,88
Cotal  Everage cost per serv Everage cost per indiv EROUP "D"  Office First Minor I Repeat Referred Routine Medical House N.H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Dist. & Gyn General Surgery Dritho, Surgery Veuro. Surgery Jrology Surgery Jrology Surgery Drolaryngology Eye Plastic Surgery Meternal Medicine Psychiatry Paediatrics Dermatology Physiatry X-ray Anaesthesia	13,701 ice idual covered  330 1,047 722 - 133 226 84 6 1,451 115 20 2 7 127 301 31 9 132 23 17 19 56 118 6 12 361 166 107 - 200 122	\$97,242.67  \$7.09 \$5.36  \$2,599.00 4,787.00 2,031.00  576.00 1,433.00 843.00 45.00 3,377.00 438.00 40.00 1,724.00 785.90 97.00 660.00 2,442.00 1,325.00 1,185.00 505.00 1,174.50 1,582.00 460.00 1,703.00 435.00 2,087.00 2,987.00 2,987.00	400	\$4.98	14,217	\$5,88

TABLE 8
SOCIAL SERVICE RECIPIENTS MEDICAL SERVICES UTILIZATION
April 1, 1967 - June 30, 1967

	Recipier		Spouse	F	Child	Fee
Гуре of Service	No. of Services	Fee	No. of Services	Fee	No. of Services	ree
GROUP "E"						
Office						
First	10	\$ 100.00				
Minor 1 Repeat	92	434.00 112.00				
Referred	-	-				
Routine Medical	-	-				
House	4 2	26.00 - 25.00				
N.H.E. Detention Fee	2	10.00				
Hospital, Active	50	153.00				
Referred	-	-				
Chronic Mileage	_					
Certificate	-	-				
Consultation	3	45.00				
Laboratory Minor Procedures	21	38.50 1.00				
Obst. & Gyn.	-	-				
General Surgery	11	464.00				
Ortho. Surgery	-	_				
Neuro. Surgery Urology Surgery		_				
Otolaryngology	5	145.00				
Eye	6	60.00				
Plastic Surgery Internal Medicine	2	30.00				
Psychiatry	10	135.00				
Paediatrics	-	:				
Dermatology	1	5, 00				
Physiatry X-ray	10	117.00				
Anaesthesia	8	155.00				
Surgical Assistant	2	40.00				
	275	¢2 005 50				
	275	\$2,095.50	ļ		<u> </u>	!
Average cost per servi Average cost per indiv	ce	\$7.62 \$1.73				
Average cost per servi Average cost per indiv	ce	\$7.62				
Average cost per servi Average cost per indiv GROUP "F"	ce idual covered	\$7.62 \$1.73				
Average cost per servi Average cost per indiv	ce	\$7.62				
Average cost per servi Average cost per indivi GROUP "F" Office First Minor l Repeat	ce idual covered 4 20 15	\$7.62 \$1.73				
Average cost per servi Average cost per indiv GROUP "F" Office First Minor 1 Repeat Referred	dual covered  4 20 15	\$7.62 \$1.73 \$34.00 100.00 43.00				
First Minor 1 Repeat	ce idual covered 4 20 15	\$7.62 \$1.73 \$34.00 100.00 43.00 -7.00				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor 1 Repeat Referred Routine Medical House N. H. E.	20 15 1	\$7.62 \$1.73 \$34.00 100.00 43.00				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor 1 Repeat Referred Routine Medical House N.H.E. Detention Fee	20 15 - 1 1	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 7.00				
Average cost per servi Average cost per indivi GROUP "F"  Office First Minor l Repeat Referred Routine Medical House	20 15 1	\$7.62 \$1.73 \$34.00 100.00 43.00 - 7.00 7.00				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor 1 Repeat Referred Routine Medical House N.H.E. Detention Fee Hospital, Active Referred Chronic	20 15 - 1 1 1	\$7.62 \$1.73 \$34.00 100.00 43.00 - 7.00 7.00 10.00				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor 1 Repeat Referred Routine Medical House N.H.E. Detention Fee Hospital, Active Referred Chronic Mileage	20 15 - 1 1 1	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 10.00				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor l Repeat Referred Routine Medical House N.H.E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate	20 15 - 1 1 1	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 10.00				
Average cost per servi Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor l Repeat Referred Routine Medical House N.H.E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory	20 15 - 1 1 1 - 5 - - - 1 4	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 10.00				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor l Repeat Referred Routine Medical House N.H.E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures	dual covered  4 20 15 - 1 1 1 - 5 1 4 1 1	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 7.00 10.00				
Average cost per servi Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor I Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn.	20 15 - 1 1 1 - 5 - - - 1 4	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 7.00 10.00				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor 1 Repeat Referred Routine Medical House N.H.E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn. General Surgery Ortho. Surgery	dual covered  4 20 15 - 1 1 - 5 1 4 1 1 4 1 1	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 7.00 10.00				
Average cost per servi Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor I Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn. General Surgery Ortho. Surgery Neuro. Surgery	dual covered  4 20 15 - 1 1 - 5 1 4 1 1 4 1 1	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 7.00 10.00 				
Average cost per servi Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor l Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn. General Surgery Ortho. Surgery Neuro. Surgery Urology Surgery	dual covered  4 20 15 - 1 1 - 5 1 4 1 1 4 1 1	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 10.00 				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor 1 Repeat Referred Routine Medical Hoose N.H.E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn. General Surgery Ortho. Surgery Urology Surgery Otolaryngology	dual covered  4 20 15 - 1 1 - 5 1 4 1 1 4 1 1	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 7.00 10.00 				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor l Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn. General Surgery Ortho. Surgery Veuro. Surgery Urology Surgery Utology Surgery Otolaryngology Eye Plastic Surgery	dual covered  4 20 15 - 1 1 - 5 1 4 1 1 4 1 1	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 10.00 				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor 1 Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn. General Surgery Ortho. Surgery Urology Surgery Urology Surgery Otolaryngology Eye Plastic Surgery Internal Medicine	dual covered  4 20 15 - 1 1 1 1 1 4 1 1 1 1 1	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 10.00 				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor 1 Repeat Referred Routine Medical House N, H, E, Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn. General Surgery Ortho. Surgery Urology Surgery Urology Surgery Urology Surgery Urology Surgery Plastic Surgery Internal Medicine Psychiatry	dual covered  4 20 15 - 1 1 - 5 1 4 1 1 4 1 1	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 7.00 10.00 				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor 1 Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn. General Surgery Ortho. Surgery Urology Surgery Urology Surgery Urology Surgery Otolaryngology Eye Plastic Surgery Internal Medicine Psychiatry Paediatrics Dermatology	dual covered  4 20 15 - 1 1 1 1 1 4 1 1 1 1 1	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 10.00 				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor I Repeat Referred Routine Medical House N, H, E, Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn. General Surgery Ortho. Surgery Urology Surgery Internal Medicine Psychiatry Paediatrics Dermatology Physiatry	dual covered  4 20 15 - 1 1 1 1 1 4 1 1 1 4	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 7.00 10.00 				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor 1 Repeat Referred Routine Medical House N.H.E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn. General Surgery Ortho. Surgery Verion. Surgery Urology Surgery Otolaryngology Eye Plastic Surgery Internal Medicine Psychiatry Paediatrics Dermatology Physiatry X-ray	dual covered  4 20 15 - 1 1 1 1 4 1 1 1 1 4 1 1 1 9 - 1	\$7.62 \$1.73 \$ 34.00 100.00 43.00 7.00 10.00 10.00 15.50 10.00 15.50 10.00 15.50 10.00				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor I Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn. General Surgery Ortho. Surgery Urology	dual covered  4 20 15 - 1 1 1 1 1 4 1 1 1 4	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 7.00 10.00 				
Average cost per servi Average cost per indiv: GROUP "F"  Office First Minor 1 Repeat Referred Routine Medical House N. H. E. Detention Fee Hospital, Active Referred Chronic Mileage Certificate Consultation Laboratory Minor Procedures Obst. & Gyn. General Surgery Ortho. Surgery Urology Surgery Urology Surgery Urology Surgery Otolaryngology Eye Plastic Surgery Internal Medicine Psychiatry Paediatrics Dermatology Physiatry X-ray Anaesthesia	dual covered  4 20 15 - 1 1 1 1 1 4 1 1 1 1 4 1 1 1 1	\$7.62 \$1.73 \$34.00 100.00 43.00 7.00 10				

### 2. Dental Services for Social Service Recipients

On behalf of the Social Service Recipients, the per capita payment in 1967 to the Alberta Dental Association amounted to 90 cents per month. Routine dental care is provided to all Social Service Recipients and with the exception of the Government Child Wards and Aid to Dependent Children Groups, two-thirds of the cost of new dentures is provided. Posterior bridge work is not provided. However, special dental and orthodontic care for the Government Child Wards and Aid to Dependent Children may be authorized.

During the fiscal year 1967-68, the Government of the Province of Alberta paid to the Alberta Dental Association, for dental services, an amount of \$895,844.70 compared to \$552,487.77 in 1966. This represents an increase of \$343,356.93 or 62.1%.

### Dental Statistics by Group, of the Pensioners' Dental Service for the Year 1967

This statistical summary was compiled from the treatment records of those persons receiving treatment under the Pensioners' Dental Service during the period of January 1st to December 31st, 1967. The number of eligibles used as a base for calculation in this table was obtained by averaging the counts of beneficiaries in each category contained in the monthly reports issued by the Welfare Department.

TABLE 9
SOCIAL SERVICE RECIPIENTS UTILIZATION OF DENTAL SERVICES BY GROUPS - 1967

Type of Recipient	Average Number Eligible	Number Receiving Treatment	Percent of Participation	Disbursements Per Group	Average Cost Per Treated Person
Government Child Wards	4,044	1,480	36.6%	\$ 56,369.45	\$38.09
Aid to Dependent Children	438	137	31.3%	5,228.35	38.16
All Other Social Service Recipients	76,120	18, 213	23.8%	769,096.01	42. 23
TOTAL	80,602	19,830	24.8%	\$830,693.81	\$41.89

### 3. Optical Services for Social Service Recipients

The total of all services under the program for glasses in 1967 amounted to 13,823 accounts, at a cost of \$164,760.09. This represents an increase of 2,944 services, as well as an increase of \$59,278.14 in payments.

Comparative data for eligible recipients is shown in the following table:

TABLE 10 SOCIAL SERVICE RECIPIENTS - UTILIZATION AND COSTS OF OPTICAL SERVICES, 1961 - 1967-68

Year	Average Number of Recipients	Number of Services	Percentage of Recipients Obtaining Services	Total Cost of Services	Average Cost Per Service
1961	50,459	8,338	16.5	\$ 82,287.13	9, 88
1962	57,639	8,617	14.9	82,350.03	9.44
1963	61,450	10,569	17, 2	106, 364, 89	10.06
1964	65,455	9,638	14.7	92,010,61	9.54
1965	69,895	11,242	16, 1	105,652,39	9.40
1966	73,812	10,879	14.7	105, 481, 95	9.69
967-68	80,602	13,823	17.1	164,760.09	11.92

The number of recipients obtaining services was 35.1 percent higher than in 1966, and the cost per service was \$2.23 higher. The total payments to optometrists represented \$27,743.00 for 2,984 services, a decrease of \$51,357.50 in payments and a decrease of 6,142 in services. Effective July 1, 1967, the payment of eye examinations became the responsibility of the Alberta Health Plan, consequently, this is the reason for the reduction in the number of services during the year under review. Optometrists received \$6.50 for a vision examination and \$2.50 for a fitting fee if carried out, making a total of examination and fitting

\$9.00. Payment to the medical eye specialist was included in the Agreement for Social Service Recipient medical care through the College of Physicians & Surgeons.

### 4. Chiropractic Services for Social Service Recipients

The Agreement which the Department of Health has with the Alberta Chiropractic Association makes provision for chiropractic care to all Social Service Recipients, except those relating to Government Wards and Aid to Dependent Children. The total payment to the Alberta Chiropractic Association in 1967-68 amounted to \$141,147.75, which represents an increase of \$26,613.75 or 23.2% over the 1966 payment of \$114,534.00. The payment to the Association was at the rate of 15c per capita per month for the full twelve months during the financial year, 1967-68.

### 5. Other Treatment Services

These services include physiotherapy and podiatry. Such services are provided upon the recommendation of the patient's physician and the approval of the Director, Division of Medical Services. Department of Health expenditure during the year amounted to \$712.00 for physiotherapy and \$48.00 for podiatry. This represents a decrease of \$611.00 or 44.6% from the 1966 payment of \$1,371.00. The out-patient physiotherapy received at the various hospitals, is part of the services paid through the Hospitalization Benefits Plan, and consequently, is not included in the above payments.

### SCHOOLS FOR NURSING AIDES

These schools, which are established pursuant to The Nursing Aides Act, 1947, are intended to give an opportunity for a career in nursing to women who might not possess the necessary academic qualifications to enrol in a regular School of Nursing.

This program has enjoyed considerable success from its beginning in the first school at Calgary in 1948. In 1958 a second school was opened in Edmonton. The demand for Nursing Aide services has increased with the increase in number and size of the acute and auxiliary hospitals and the decreasing time that the professional nurse has to spend with the patient. Nursing Aides figure prominently in the provision of bedside nursing care.

TABLE 11
TOTAL NURSING AIDE GRADUATES—1958-1967

1958	 281	1963	527
2000			
1962	541	1967	 498

### **REGISTRY FOR NURSING AIDES**

The Nursing Aides Act makes provision for the Minister of Health to appoint a Registrar-Consultant whose duties include the registration of certified nursing aides.

As of December 31, 1967, a total 7,127 nursing aides have been certified, including those persons who were certified under Section 18(b) and Section 19 of the Nursing Aides Regulations. Section 18(b) of the Regulations relates to holders of a certificate of qualification, issued from a recognized school outside of the province, while Section 19 of the Regulations refers to individuals who have certain basic qualifications and who are required to take a supplementary course of study and/or complete examinations in order to obtain registration. During 1967, 109 applicants were registered under Section 18(b) and 15 applicants were registered under Section 19 of the Regulations.

### HEALTH CAREERS RECRUITMENT PROGRAM

The prime role of Nursing Recruitment is the dissemination of information on careers in the health field to the people of Alberta, e.g. secondary school students, school counsellors, parents, hospitals, school administrations, youth and business organizations.

In 1967 career talks were given to 5,346 students in schools in Alberta. There were 85,437 brochures on career information distributed to schools, health agencies and business agencies from the Nursing Recruitment Branch. There were 6,280 Career Kits disseminated to school counsellors and school personnel. A total of 44 displays were designed for conferences, conventions and hospital and school events.

Inquiries received in the office were estimated at 5,460 from Alberta, other provinces in Canada and various parts of the world. Three conferences were held for school personnel and school counsellors.

A comprehensive publicity program was implemented in 1967 which provided career information through radio,

television and newspaper media to the people of Alberta, especially to school counsellors, students and parents.

The Nursing Recruitment Branch promotes and programs the special project of Nursing Week for Alberta. This is a public service to make the people of Alberta aware of the needs and opportunities of Careers in Nursing in our present times. Provision is also made for vocational guidance and counselling in the choosing of a career.

A continuous public relations program is maintained with other health agencies in order that all goals may be properly focused on the primary purpose of Nursing Recruitment. During the fiscal year the cost of this program amounted to \$33,720.00.

### LABORATORY AND X-RAY SCHOOL

Since 1954, the Provincial Health Department has made available training in the medical laboratory and X-Ray paramedical fields for later employment in the rural hospitals of Alberta.

Since most rural hospitals are unable to employ a technician for each area, graduates from this intensive seven-month course fill the dual role economically. Furthermore, where the work-load in a progressive rural hospital becomes too heavy for one technician, two technicians able to perform dual roles allow adequate emergency call-back coverage in both areas.

Fifteen students graduated in April 1967, bringing the total to 235, with sixteen students under training as of December 1967. Cost of the program amounted to \$47,362.60 during the year.

Associate membership of both the C.S.L.T. and C.S.R.T. is extended to our graduates, signifying recognition of the training program in both disciplines. Credits are arranged towards registration, and 24 have taken R.T. status on this basis.

The need for this "Combined Technician" has remained in excess of supply, and plans for meeting this demand are under consideration.

### NORTHERN ALBERTA HEALTH SERVICE

The Northern Alberta Health Service, as inaugurated by Order-in-Council April 1, 1966, continued to improve the preventive and treatment services for the 12,000 persons resident in the 104,000 square miles of Alberta beyond the Health Units. The Medical Officer of Health functioned in an administrative-clinical capacity, the Senior Nurse co-ordinated the preventive and emergency treatment service based on the widely dispersed municipal nursing service, and the Public Health Inspector conducted the surveillance of environmental hygiene.

A dentist became permanently situated at Fort McMurray and arrangements were made with him to provide a monthly visiting service to Fort Chipewyan. Dental Treatment Clinics, with the co-operation of the Volunteer Dental Program, were conducted at Wabasca-Desmarais, High Level and Fort Vermilion.

Ophthalmological Clinics, with an ophthalmologist and ophthalmic dispenser in attendance, examined and provided glasses for 649 residents at Habay, Assumption,

BRACES:

17

21 6

22

. 72,764 miles

14 2 days

Meander River, High Level, Rocky Lane, Fort Vermilion, Fox Lake, La Crete, Tompkins Landing, Paddle Prairie, Wabasca, Desmarais and Trout Lake. Fort McMurray residents have a regular optometric service. Other Health Services are supplied by three resident and three visiting physicians, three hospitals, seven municipal nurses in four nursing stations and five Northern Health Service nurses in three Federal nursing stations. Approximately one-third of the population are registered Indians and are receiving adequate services from Federal resources which operate in a pooling arrangement with those of Provincial origin in an endeavor to offer a basic service to all residents. Total cost of program for the year amounted to \$4,218.08.

### CEREBRAL PALSY CLINIC - CALGARY

Νι

The Calgary Cerebral Palsy Clinic became a branch of the Division of Medical Services in November of 1967 with Doctor Margaret Pearson continuing to act as the Clinical Director. Four teams, consisting of one orthopaedic surgeon and one paediatrician consulted in pairs on the first four Thursdays of every month. The case load continued to increase with forty new cases being registered in 1967. The inability to obtain the services of speech therapists has hindered this program. The cost of operating this Clinic during the fiscal year amounted to \$86,628.37.

TABLE 12						
STATISTICS	SHOWING	ACTIVITIES	DURING	1967		

DIMITOTICS SHOWING MCHIVITH	DOILL.	110 1001
umber of examining clinics		46
umber of paediatric examinations		111
umber of orthopaedic examinations	_	226
umber of new cases		40
(a) cerebral palsy	38	
(b) pending	0	_
(c) miscellaneous	2	_
umber of active cases		340
		0.10
EPARTMENTS:		
1 Dlangio the over		
1. Physiotherapy		
Number of cases benefiting		84
Number of cases on home		0.1
program only		34
Number of cases assessed only		23
Number of cases recheck only		3
Number of treatments		4,266
Total Physic assessments		42
Total parent instructions		193
Total parent histractions		100
PROGRESS:		
Co-ordination	3	_
Head control	4	
Sitting balance	10	
4 point kneeling	4	
Standing balance	20	
Reciprocation	9	_
	7	
Crawling	6	
Walking:	8	
(a) with help (unbraced)	4	
(b) in walker	1	_
(c) in parallel bars	0	_
(d) with crutches	10	
(e) with canes	10	
(f) unaided (braced)	11	_
(g) unaided (unbraced)(h) with help (braced)	4	
	26	
(i) balance improved	20	
GENERAL IMPROVEMENT:		
Minor gait improvement	14	
Considerable gait improvement	15	
Deformities reduced	24	
Group muscle control	29	
Minor activity increased	14	
No progress	9	
Wheelchair activities	1	
Postural improvement	7	
A.D.L. activities	23	
	20	
BRACING:		
(a) for control (first time)	6	_
(b) for control (continued)	22	_
(c) removed	14	_
(d) increased	2	_
(e) special equipment	Õ	
(f) splints continued	34	
(g) splints first time	10	
6. phillips river current	10	

Appliances Adjustment and repairs Corrective shoes	6 25 11 44 19	
2. Occupational Therapy		
Number of cases benefiting Number of assessments Number of parent instructions Number of parent instructions Psychological and emotional problems Non-distractibility program Activities of daily living Perceptual motor training Remedial games (for specific muscle strengthening) Laterality testing Relaxation training	7 3 12 226 17 7 3 30	58 57 2,942 50 — — —
Typing	13	
Communication	8	_
3. Speech Therapy No speech therapist. Emergent assessment Alberta Children's Hospital—Speech There 4. Social Service	ts being done apy Departm	ent.
Interviews Telephone calls Home visits Observations Conferences Agency meetings Parent meetings	    	292 1,808 26 61 481 34 5
SURGERY	33	_
MOVIE FILMS	35	_
DISPOSITION OF CASES:		
Admitted to regular school Admited to special class other than cerebre Admitted to School for Retarded Admitted to Alberta School Hospital—Red Attending Cerebral Palsy Association's Da Care Centre Dereased	Deer	7 2 1 3 15
FOSTER-HOME PROGRAM (DOMICILIARY CARE AGREEMENT)		
Number of cases serviced Number of days domiciliary allowance		11 1,929
Parent Education		
Parent meetings attended by Social Worke Individual counselling of parents Panel presentation by Social Worker and Physiotherapist Director spoke at Parent Meeting		5 160 1 1
Public Education		20
Tours of Clinic by visitors Instruction to nurses		30 42
Instruction to therapists (students and int	ernes)	17
Instruction to teachers		1

### PROVINCIAL POISON CONTROL SERVICES

Instruction to teachers
Instruction to University students (education

Special Teacher's meetings (attended by teachers) ...
Teachers attended Teachers' Convention
Physiotherapist to Canadian Physiotherapy
Conference and Course, Ottawa—one week
Occupational Therapist to National Society
Convention, Los Angeles (5 days)
Supervisor to National Society Convention, Los Angeles

(5 days)
Staff to Glenrose School Hospital—Edmonton
Field trips (Social Worker)

Instruction by Fire Department

Provided by Calgary Cerebral Palsy Association Mileage (3 buses) (4 since September, 1967) ......

and psychology)
Instruction to high school students ......

Staff Education

Fire Drills

Transportation

During 1967 an additional Treatment Centre was established in the Slave Lake General Hospital, making a total of 115 Poison Treatment Centres in the Province of Alberta. Poison Treatment Services are available to all parts of the province through all the active treatment hospitals.

The two Poison Information Centres - one in the University Hospital, Edmonton, servicing Northern Alberta, and the other in the General Hospital, Calgary, servicing Southern Alberta, functioned as usual with numerous requests for information on the newer toxic substances and

treatment for complicated poisonings.

The Poison Control Advisory Committee consists of thirteen interested consultants functioning under the chairmanship of Dr. J. K. Martin, Professor of Pediatrics, University of Alberta. The Committee in the course of their deliberations considered the available statistics and reviewed the methods of Poison Control.

The film "POISONS" produced locally with local resources had wide spread acceptance and enjoyed extensive circulation through the Branch of Public Health Education.

During 1967 the office of the Poison Control Services received a total of 3556 Individual Poisoning Reports. Monthly reports were made up on a quarterly basis and a short form was mimeographed and mailed to each practising physician and pharmacist, and also to each hospital in the Province.

During 1967 a total of 3556\* cases including deaths, were reported. Of these 1753 were males and 1803 were females. The deaths among the reported cases were 63 males and 32 females making a total of 95 deaths, or a fatality rate of approximately 26.7 per 1000 reported poisonings. This rate is slightly higher than it has been previously. In 1967 the Bureau of Vital Statistics reported 93 deaths occurring outside of hospitals.

Total cost of operating this Service amounted to \$15,590.66 for the last fiscal year.

\*These are not the official figures for all of the poisonings in the Province. The official figures are published by the Division of Vital Statistics.

### Reporting

For the purpose of reporting, eight (8) Categories were established covering the substances in common use. These categories are:

- A. Drugs and Medications for External Use which embrace antiseptics, liniments, cosmetics, salves, etc.
- B. Drugs and Medications for Internal Use which cover aspirins, Baby's Own and Ex-Lax, sedatives and sleeping pills, cough syrups, prescription drugs etc.
- C. Household Chemicals which include cleaners, detergents, lye, polishes, waxes, solvents and varsol, etc.
- D. Industry, Auto & Fuel such as gas (CO), industrial products, gasoline, etc.
- E. Poisonous Plants & Venomous Animals which

cover berries and plants, toadstools, etc.

- F. Pesticides which include insecticides, moth balls, rodenticides, weedicides, etc.
- G. Tobacco & Alcohol which cover ethyl alcohol, and tobacco.
- H. Miscellaneous embracing substances difficult to categorize.

### Relationship of Age to Poisonings Age Group below 5 Years

In examining the Tables it becomes apparent that age and poisonings are directly linked. The fact that 2457 of the total reported poisonings occurred in the Age Group 0 to 4 (actually 69.0 per cent), is ample evidence that this age group needs almost constant supervision. While this information, in relation to poisonings, extends and amplifies this need, it has long been recognized by parents, physicians, nurses and other persons concerned with the care of children that this age group, through its adventurous proclivities in seeking, climbing, tasting and exploring, was accident-prone. It is interesting to note that of the poisonings, 1372 including deaths occurred in males and 1085 in females. There were 2 male deaths and 1 female, with the rate being 3.2 per cent of the total deaths.

### Age Group 5-14

In this age group there were 170 poisonings with 90 males and 80 females including deaths. This age group accounted for only 4.1 percent of the total poisonings. It is interesting to note that while the males in the 0 to 4 age group accounted for 1372 of the total poisonings in the age group, the males in the 5-14 age group accounted for 90 of the total poisonings. There was 1 male death and 3 females in this group accounting for 4.0 percent of the total deaths.

### Age Group 15-24

In this age group there were 402 poisonings with 100 males and 302 being females, including deaths, with the females accounting for the largest percentage of the poisonings. The poisonings in the age group accounted for 11.3 percent of the total poisonings. There were 13 male deaths and 4 females, making a rate of 17.9 percent of the total deaths.

There has been a suggestion made that poisonings in the age group 15-24 may not be accidental in its true sense, however, our experience shows that most of the incidents are accidental, generally being due to carelessness in not reading directions or understanding what the particular substance was designed to do.

Age Group 25-44

This age group accounted for 369 or 10.4 percent of the total poisonings. The females were again in the lead with 256 of the total poisonings, including deaths, for this age group. There were 113 males poisoned. In examining the data, it is easily seen that a large proportion of the 256 cases were associated with Drugs and Medications for Internal Use. On the face of it this indicates that there may have been some abuse in the use of such drugs and medications. It should be sufficient to indicate that the great profusion of Drugs and Medications for Internal Use, available not only in drug stores, but also in other retail outlets, and the carelessness with which such materials are handled in the home, could easily account for a large proportion of the poisonings being definitely accidental. The mere fact that most of the victims were females, only supports the well-known fact that the females, mostly mothers, are more commonly in the home and are subjected to stresses and strains which the male escapes. The 22 male and 13 female deaths accounted for 36.1 percent of the total deaths.

Age Group 45-Up

The poisonings in this age group are 158 or 4.4 percent of the total poisonings reported. Of these 78 involved males and 80 females, including deaths. Here again Drugs and Medications for Internal Use were in the lead, with the other cases being approximately evenly distributed amongst the other categories. Information gathered in relation to a number of these cases shows that many of them involved elderly persons, and it is entirely reasonable to assume that the confusion associated with illness and/or age caused either a mistake in identity of medications or an overdose of the particular product involved. The 25 males and 11 female deaths were 37.1 percent of the total deaths.

TABLE 13
DEATHS FROM POISONINGS REPORTED BY THE BUREAU OF VITAL STATISTICS AND HOSPITALS
LISTED BY AGE-GROUPS, SEX, SUBSTANCE AND CATEGORIES—FOR 1967

		U	1-4	5-	14	15-	-24	25-	44	45-	Up	To	otal
CA	TEGORIES	M	F	M	F	M	F	M	F	M	F	M	F
B.	Drugs and Medicine for Internal Use Aspirin	0	0	0	0	0	0	0	4	0	0	0	-
	Barbiturates	0	0	0	0	1	0	4	5	2	7	7	6
	Prescriptions	ŏ	ŏ	ŏ	ŏ	1	ŏ	0	ő	ő	Ô	i	0
	Sedatives	0	0	0	0	0	0	0	2	0	0	ō	2
	Tonic and Vitamins	0	0	0	0	0	0	0	0	0	1	0	1
C.	Household Chemicals Bleach and Javex	0	0	0	0	0	0	0	0	1	0	1	0
D.	Industry, Auto and Fuel Carbon Monoxide	1	1	1	3	10	3	16	4	20	5	48	16
F.	Pesticides Rodenticide	0	0	0	0	1	0	0	1	0	1	1	2
G.	Tobacco and Alcohol Ethyl	0	0	0	0	0	1	2	0	2	0	4	1
H.	Miscellaneous Undetermined	1	0	0	0	0	0	~ 0	0	0	3	1	3
	Totals	2	1	1	3	13	4	22	13	25	11	63	32

	1	10		~~	~	_	_	_		~	01	_		10
SI	H	15	13	<u>~</u> _	13	4	-	10	2		7	1	=	96
Deaths	Ĺ	5	co.		9	1	1	9	7	t	7	2	7	32
Д	M	10	10	2	2	4	ı	4	3	00	t	9	6	63
sdr	H	334	271	306	334	305	237	278	291	306	306	296	292	3,556
All Age Groups	Ĺų	160	140	154	174	152	120	149	140	154	167	149	144	1,803
A11 A	M	174	131	152	160	153	117	129	151	152	139	147	148	1,753
Up	H	16	17	4	18	16	2	16	11	00	15	14	18	158
45 - U	Ĺ	9	7	2	12	9	2	7	4	3	13	2	1	80
4	M	10	10	2	9	10	3	6	7	70	2	2	7	78
44	H	36	35	31	30	31	17	25	28	36	59	32	39	369
25 - 4	ഥ	22	23	21	25	22	12	17	20	23	20	22	29	256
2	M	14	12	10	5	6	5	00	00	13	6	10	10	113
24	H	43	38	31	33	22	22	25	32	30	40	40	46	402
1	Ĺτι	30	27	19	24	16	17	20	28	27	33	31	30	302
15	M	13	11	12	6	9	5	5	4	3	7	6	16	100
	H	11	00	10	30	21	14	16	15	10	14	11	10	170
- 14	[II4	2	4	00	13	$\infty$	10	<sub>∞</sub>	4	9	9	7	4	80
ω.	Z	6	4	2	17	13	4	00	11	4	00	4	9	06
	Н	228	173	230	223	215	179	196	205	222	208	199	179	2,457
0 - 4	[± <sub>1</sub>	100	79	104	100	100	79	97	84	96	95	82	70	1,085
	Z	128	94	126	123	115	100	66	121	127	113	117	109	1,372
	Months	Tan	Feb.	Mar	Apr.	Max	June	.Inly	Ano.	Sept.	Oct.	Nov	Dec.	Totals

TABLE 15
POISONINGS (INCLUDING DEATHS), BY SEX AND TOTALS FOR ALL AGE-GROUPS
FOR EACH CATEGORY BY MONTHS - 1967

					_								_	1
	H	15	13	~	13	4	1	10	2	00	7	11	11	95
Deaths	[Ti	5	~	_	9	1	1	9	2	1	7	5	2	32
De	Z	10	10	2	_	4	1	4	3	00	1	9	6	63
	$\vdash$	334	271	306	334	305	237	278	291	306	306	296	262	3,556
Totals	Ĺų	160	140	154	174	152	120	149	140	154	167	149	144	1,803
T	Z	174	131	152	160	153	117	129	151	152	139	147	148	1,753
	[-	-	00	00	3	9	3	16	00	2	7	9	4	75
it, H	Ţų	1	2	4	_	-	2	6	2	2	4	4	2	40
Cat	M	1	3	4	2	2	_	7	3	3	3	2	2	35
	H	2	9	-	4	_	2	2	4	7	-	-	00	39
Cat. G	[H	- 1	3	-	3	1	7	-	2	3	1	_	2	19
Ü	M	2	3	_	-	-	_	_	2	4	7	ı	3	20
Ĺτι	H	10	_	6	11	21	19	14	14	10	10	11	6	139
Cat, F	ഥ	5	1	7	2	11	9	00	3	5	4	5	r)	64
O	M	5	-	2	9	10	13	9	11	5	9	9	4	75
<u>ы</u>	L	1	1	1	1	9	2	2	10	7	_	1	1	26
Cat. 1	দ	1	1	1	ı	2	2	_	4	-	1	1	ı	10
0	M	1	1	ı	1	4	ı	4	9	1	7	1	1	16
0	[	24	21	13	27	16	14	24	11	17	10	20	14	211
Cat. D	Ĺτι	6	3	9	12	3	7	00	3	3	4	00		29
O	M	15	18	7	15	13	7	16	00	14	9	12	13	144
O	H	45	27	39	51	42	37	42	47	47	48	28	32	485
Cat.	[TI	15	15	15	18	20	14	16	18	11	19	6	. ∞	178
0	Z	30			33									307
	H	237	197	210	219	194	149	163	180	197	217	212	206	2,381
Cat. B	[H	125	108	115	126	106	80	86	100	117	130	113	115	1,333
Ü	Z	112	89	95	93	88	69	65	80	80	87	66	91	92 200 1,048 1,333
	[-1	15	-	2.6	19	19	-	12	17	2.1	12	000	19	000
Cat. A	[H	72	9	7	- 6	6	· 00	00	L.	12	9	0	· 00	92 2
Cal	M	10	1	19	10	10	3	4	12	6	, 9	0	11	108
	Months	.Tan.	Feb.	Mar	Anr.	May	Time	July	And	Sent	Oct	NON	Dec.	S

### ALBERTA HEALTH PROGRAM

The Alberta Medical Plan which began operation on October 1st, 1963 through the co-operative planning of the Government of the Province of Alberta, the College of Physicians & Surgeons of Alberta, representatives of Medical Services (Alberta) Incorporated and of the Canadian Health Insurance Association became, on July 1st, 1966, the Alberta Health Program. In addition to medical services, this program included the Extended Health Benefits Plan. The administration was continued by the Division of Medical Services.

The Alberta Health Program provided a pre-payment medical plan covering the costs of medical, surgical and obstetrical services, together with an extended health benefits plan for all residents of Alberta, regardless of age, health or occupation. The Government of Alberta provided financial contributions toward premium payments for those in defined income levels. Maximum premiums were fixed,

below these maximums, premium levels might vary with the insurance company chosen. Residents enrolled directly with the insurer of their choice, and persons eligible for subsidy were required to also complete an application for subsidy.

The following subsidy levels were available:

- A. 80% of the premium cost for Alberta Residents with income below the taxable level according to Federal Government tax regulations.
- B. 50% of the premium cost for Alberta residents with taxable income not exceeding \$500.00 per annum according to Federal Government tax regulations.
- C. 25% of the premium cost for Alberta residents with taxable income not exceeding \$1,000.00 per annum according to Federal Government tax regulations

For the period January 1st to December 31st, 1967 a total of \$3,208,766.03 was spent in subsidizing the cost of health insurance for the subsidized categories.

The Alberta Health Plan commenced on July 1st, 1967.

### DIVISION OF EPIDEMIOLOGY

E. S. O. Smith, M.A., M.B., B.Chir., D.P.H., D.I.H., C.R.C.P.(C), Director

Epidemiology has been defined as the study of the distribution and determinants of disease prevalence in man. The methods of epidemiology were originally developed to determine the factors associated with the propagation of the numerous communicable diseases which, until relatively recent times, were major causes of morbidity and mortality. Some of the factors were preventable, and the identification of these factors paved the way for effective control measures.

The application of similar techniques to the study of non-communicable diseases is a fairly new field, but one which has already made great strides in the twenty years or so of its existence. It is the function of the epidemiologist to study variations not only in the incidence and prevalence of a disease, but also in the background, habits and environment of the populations affected, with the object of identifying such relationships as may exist.

Against this background, the Division of Epidemiology was established in September 1967 to assist other divisions of the Department in the collection, processing and tabulation of data, the design and conduct of epidemiological studies and the statistical evaluation of the

results of such studies. Between then and the end of the year assistance was given to

- (1) The Division of Mental Health in the establishment of a procedure for the collection and coding of statistical data on psychiatric admissions and separations:
- (2) The Division of Social Hygiene in the design of a system for coding statistical data on new cases of venereal disease;
- (3) The Division of Industrial Health Services in the design of a system for the coding and analysis of data collected during a survey of grain elevator workers.

Although the epidemiological approach is applicable to the whole spectrum of human disease, it will clearly be the duty of an epidemiological team within government to devote its attention to those conditions which are of public health importance, and to concern itself primarily with the major causes of morbidity and mortality. While research in the form of analytical epidemiology and experimental epidemiology will be the team's objective, its efforts during the first year or two will inevitably be concentrated in the area of descriptive epidemiology.

### DIVISION OF CANCER SERVICES

J. R. Ibberson, M.D., Executive Director

The three Cancer Clinics in the Province of Alberta have experienced a very busy year (1967) as the tables below will reveal:

1. Number of examinations made (Malignant and Benign) January 1-December 31, 1967 is 33,793.

		New	Rev	iew	Total		
	1967	1966	1967	1966	1967	1966	
Edmonton Calgary Lethbridge		3,457 1,939 555	14,102 11,946 1,714	13.891 12.541 1,769	17,650 13,930 2,213	17,348 14,480 2,324	

It will be noted that the total number of examinations made in the Edmonton, Calgary and Lethbridge Clinics is 33,793 as compared with 34,152 in 1966; 32,810 in 1965; 30,944 in 1964 and 29,439 in 1963.

Review examinations carried out at the Peripheral Clinics during 1967 total 1,941 as shown below:

Grande Prairie	441
Peace River	352
Medicine Hat	1,148

 Number of examinations made where malignancy is proven 30,221 as compared with 30,182 in 1966 as shown in the following table:

Calgary

Lethbridge

Edmonton

1966 14.828	13	,333		2,021		30,182
3. NEW MALIGNANT CAS	SES					
New Malignant cases reporting	E	dmonto	n	Calgary	7	Leth- bridge
to Clinic—1967 Previously benign cases reporting		1,789		1,249		243
to Clinic—1967		182		65		25
Total New Malignant cases reporting to Clinic—1967 Non-reporting Malignant cases by		1,971		1.314		268
Pathological report Autopsy report Reported by Vital Statistics	389 45		190 18 158		7 11 19	
		584	_	366	—	37
Total		2,555		1,680		305

	Edmonton	Calgary	Leth- bridge
Prior to 1953 Malignant cases reporting to Clinic for the first			
time in 1967	2	2	0
Cases treated elsewhere reporting	-00		
to Clinic in 1967	83	60	14
malignancy in 1967	68	56	27
The total number of New Malignant cas	ses discovered	in Alberta	in 1967

4. Number of examinations made on patients which proved benign:

	Edmonton	Calgary	Lethbridge	Total
1967	2.520	912	<b>2</b> 53	3,572
1966		1.147	303	3,970

### 5. (a) DIAGNOSTIC RADIOLOGY

	No. Fil	of ms	No. Pi			o. of	No Ex	erage o. of cams r day
	1967	1966	1967	1966	1967	1966	1967	1966
Edmonton Calgary	55,399 8,793		1.718 2,573	11.217 2,608	18.082 3,556	17.261 3.437	72.6 14.3	69.0 13.7
			heral lms R				ide Fil	
		1967		1966		1967		1966
Edmonton Calgary		2,774		1,234 30		5,734 1,526		9,019 1,039
EDMONTON (	CLINIC							
	Series	Large Bowel an Air Contrast	Fluc (G.) d Bo	sarium proscopies I. Series, Large wel and Air pntrast)	Urir		romog:	rams
	23 12	745 887		1,368 1,599	32 38	22 30	694 745	

### 5. (b) THERAPEUTIC RADIOLOGY

	j	Eamonte	n		Caigar	У
	New	Retreat	Total	New	Retreat	Total
Pts. treated by X-ray, Co. 60 or Cesium 137	1967—698 1966—683	332 266	1,030 949	508 531	227 144	735 675
Pts. treated by X-ray, Co. 60 or Ces. 137 and radium	196: 44		44		_	43
Pts. treated by radium	1966 43		43	54	_	54
alone  Benign pts. treated	1967— 17 1966— 22	=	17 22	15 —	_	15 —
by radiation	1967— 53		53	_	_	
Total patients treated at Clinics	1967—812 1966—748	332 266	1.144 1,014	566 585	227 144	793 729
Treatments given by	Edmo	onton		C	algary	
	1967	1966		1967		1966
Cobalt 60	11,521	11,530		5,449 1,792		4,868 2,089
Deep X-ray Superficial X-ray Cesium 137 Treatment on two machines Single treatments Radiation treatments to	617 414 2,425 453 42	547 460 1,259 504 24		1,410 1,372		1,436 1,224
benign patients	346					
	15,818	14,324		10,023		9,617
Radium insertions, implants Laboratory examinations	113	113		78		74
in Clinic laboratories (Units of laboratory work)	59,633	57,789		24,922	1	9,873

### 6. NUMBER OF CASES SUPPLIED WITH THE FOLLOWING SERVICES:

		lation erapy	Prosthetic Appliances		
	1967	1966	1967	1966	
Edmonton	1,144 793 23	1,014 729 13	5 0 1		
	1,960	1,756	6		

	Diagnostic X-rays			ajor rgery	Exploratory Laparotomy		
	1967	1966	1967	1966	1967	1966	
Edmonton	11.728 2,585 2	11,226 2,610	1,603 840 127	1,317 - 763 179	149 72 11	133 83 30	
	14,315	13,836	2,570	2,259	232	246	

		east osies		her psie <b>s</b>		mostic ttages
	1967	1966	1967	1966	1967	1966
Edmonton	628 262 95	490 292 123	771 588 150	716 620 180	256 175 42	290 218 40
	985	905	1,509	1,516	473	548

	Enceph grams,			ncho- y and goscopy	Sigmol	doscopy
	1967	1966	1967	1966	1967	1966
Edmonton Calgary Lethbridge		2 2 1	253 85 5	227 70 11	320 26 <b>7</b>	368 22 8
		5	343	308	353	398

	Cysto	scopy	tion Co	estiga- is and nsul- tions		ests*
	1967	1966	1967	1966	1967	1966
Edmonton	519 159 36	436 167 39	1,104 250 13	729 239 108	59,633 26,429	57,966 21,230 45
	714	642	1,367	1,076	86,062	79,241

7. Since the opening of the Clinics in 1941 the total number of examinations made is 415,629.

\*Units of Laboratory work (Dominion Bureau of Statistics)

### DIVISION OF SOCIAL HYGIENE

P. L. Rentiers, M.D., Director

There were no changes in the administration and policies of the Division of Social Hygiene during 1967. Based on new admissions and patient visits the Edmonton and Calgary clinics were increasingly busy. However, the rates for reported syphillis and gonorrhoea remained much the same. As indicated in the attached statistical tables there were 207 cases of syphillis reported, 176 of which were early infections (85%) compared to 207 cases with 180 early infections (87%) during 1966. It is felt that the enhanced epidemiological procedures initiated in 1966 to combat the rising incidence of syphillis have been reasonably successful in preventing a continuation of this trend.

The importance of routine blood testing, especially for high risk groups such as gaol inmates, is again demonstrated when it is realized that over one-third of the reported syphilis was first detected by this procedure. It is of particular interest to note that 4.3% of the total syphilis cases were immigrants. It would appear that some lapses must occur in the taking and reporting of serological tests on individuals entering Canada.

Three cases of congenital syphilis were reported during the year, only one of which was a newborn. The mother, in this instance, had a negative prenatal serology but at confinement was found to have a positive cord blood, a fact which once more emphasizes the very great importance of not eliminating any of the occasions when routine blood testing is recommended.

Gonorrhoea showed a slightly increased rate for 1967, a trend which is expected to prevail due to the inherent difficulties of controlling this infection mentioned

in previous reports. As predicted, the statistics reveal improved reporting of gonorrhoea by private physicians since the coming into force of the new Venereal Diseases Prevention Act in 1965.

The highest incidence of venereal infections is still found in the young adult group, not in the teenagers, as reported by some authorities in other areas. It is important to stress that, if these infections are to be kept at a minimum in the latter group, there will need to be a concentrated effort on the part of all parents, educators and health workers to provide the necessary information to young people early enough to allow them to make choices in regard to their behaviour which will be in the best interests of both themselves and society. It is gratifying that this Division and the Branch of Public Health Education are receiving many more requests for assistance in this regard.

The Indian and Metis people of the province continue to present the greatest single problem for the Division in spite of the extra epidemiological and educational endeavors directed toward them. In 1967 this small ethnic group accounted for 38.6% of the reported syphilis and 30.6% of the total confirmed and unconfirmed gonorrhoea. It is hoped that the present stress being put upon improving the socio-economic conditions of the native Canadian will in due course be reflected in a lowered incidence of venereal disease for them.

The interest and co-operation of the practising physicians, the various health and welfare agencies, and all other individuals who have contributed to the work of this Division is gratefully acknowledged.

## DIVISION OF SOCIAL HYGIENE ALLEGED SOURCES OF OR CONTACTS TO VENERAL INFECTION JANUARY 1 TO DECEMBER 31, 1967

	Reported Informa	Contacts with ation for Inves	Sufficient tigation	Reported Cases of Veneral Infection
	Number Reported	Number Located	Number No Action Taken	with Insufficient or no Information Concerning Contacts
TOTALS	4,289	4,054	20	1,993
Residential Status Alberta Non-Alberta Northwest Territories	4,004 257 28	3,875 154 25	17 2 1	
Agents Forwarding Information				
Private Physicians Armed Forces Provincial Clinic Other Provinces	1,520 22 2,512 235	1,460 19 2,402 173	11 1 8 0	961 12 1,020 0

### EPIDEMIOLOGICAL INVESTIGATIONS CARRIED OUT BY DIVISION OF SOCIAL HYGIENE

	I. Repor	rted Contacts	to Veneral	Disease		
Unit	Processed	Investigated		Not Investigated Insufficient Information	II. Delinquents	III. Miscellaneous
Edmonton Clinic Calgary Clinic Lethbridge Clinic Mobile Clinic Head Office	2,773 1,939 163 754 6,302	2,069 1,740 154 646 4,289	0 0 0 0 20	704 199 9 108 1,993	267 64 1 7	833 237 107 82

PROVINCIAL CLINIC, Alberta Jasper Building, 9815 Jasper Avenue, Edmonton, Alberta Total Number of New Cases of Veneral Disease Classified as to Sex and Age of Patient:

Under 1 - 4 5 - 14

in Current Year

- Syphilis

187

	1	у г.	) y 1	٥.	ÀΤ	J.	yrs	•	00 0	ver	Jua	itea	
	M	F	M	F	М	F	M	F	M	F	M	F	TOTALS
Gonorrheoa (all forms) Syphilis (acquired-primary) Syphilis (acquired-secondary) Syphilis (acquired-latent)					2		110	72 1 2	1,016 39 13 6	224 1 25 2			1,424 42 41 8
TOTALS					2		112	75	1,074	252			1,515
Number of Cases of Syphilis Number of Cases of Gonorrho	ea			1ale	e e l		28		Female Female	31 296			91 1,424
Number and Results of Serolo Number and Results of Darkfi Number and Results of Cereb Number and Results of Bacter Number and Results of Cultur Total Number of Patient Visit Total Number of New Admiss	eld ros riol es s ion:	Ex pina ogio take	ami al F cal en f	nat luid Tes	ions d Te sts f Gon	ests or oco	Gono cci		0 i 1,931	of who of who of who	ich ich ich 1,	26 v 0 v 181 v	vere Reactive vere Positive vere Positive vere Positive vere Positive

Gonorrhoea 932

15 - 19

20 yrs.

Age not

PROVINCIAL CLINIC, 118 11th Avenue S.E., Calgary, Alberta

Total Number of New Cases of Veneral Disease Classified as to Sex and Age of Patient:

		der r.		4 rs.		l4 rs.	15 - yı M	19 :s.	& C	yrs.		ge Not	TOTALS
Gonorrhoea (all forms) Syphilis (congenital) Syphilis (acquired-primary) Syphilis (acquired-secondary) Syphilis (acquired-latent							46	17	524 8 3 2	23 1 9 2			61 <b>0</b> 1 8 12 4
TOTALS							46	17	537	35			635
Number of Cases of Syphilis Number of Cases of Gonorrhoea		Ma Ma		13 570			nale nale	1 4					25 610
Number and Results of Serologic Number and Results of Darkfield Number and Results of Cerebro Number and Results of Bacterio Number and Results of Cultures Total Number of Patient Visits Total Number of New Admission Total Number of Old Infections in Current Year - Syphili	d Example Expination Logic take take take	min: l Flu al To n for	ation uid T ests r Gor w-up	s ests for loco	Gono cci st Ti	me	3, 2	75 1 235 507 290	of whic of whic of whic of whic	h h h	9 0 593	were were were	Reactive Positive Positive Positive Positive

PROVINCIAL CLINIC - c/o Lethbridge Municipal Hospital, Lethbridge, Alberta

Total Number of New Cases of Veneral Disease Classified as to Sex and Age of Patient:

		der yr.		- 4 rs.		14 rs.		19 F		ver	TOTALS
Gonorrhoea (all forms) Syphilis (acquired-primary) Syphilis (acquired-secondary)							2	3	30 2	3	38 2 1
TOTALS							2	3	32	4	41
Number of Cases of Syphilis Number of Cases of Gonorrhoea			Male Male		2 32			male male			3 38
Number and Results of Serologic Number and Results of Darkfield Number and Results of Bacterio Number and Results of Cultures Total Number of Patient Visits Total Number of New Admission Total Number of Old Infections in Current Year - Syphilis	d Example 1 Exam	minat Il Tes for	ions sts fo Gono -up F	r Gocc	noco i Tim		129 11 497 85	of of of of of	which which which which		21 were Reactive 4 were Positive 36 were Positive 0 were Positive

MOBILE CLINIC, Lac La Biche, McMurray, Fort McKay, Fort Vermilion, Fox Lake, Slave Lake Area, Whitecourt, Valleyview, Peace River and Grande Prairie Areas, Red Deer, Stettler, Camrose, Drayton Valley and Edson Areas.

		Under l yr.		4 rs.	_	14 rs.		. 19 s.		yrs. ver	sta	e Not ited	TO SAI C
	M	F	M	F	M	F	M	F	M	F	M	F	TOTALS
Gonorrhoea (all forms Syphilis (acquired-primary)							1	4		2			6 1
Syphilis (acquired-secondary) Syphilis (acquired-latent) Type Undetermined							1	2	2	1			9 1 1
TOTALS							2	6	3	7			18
Number of Cases of Syphilis	-		Male		5		Fema	.le	7				12
Number of Cases of Gonorrhoe	a		Male		0		Fema	le.	6				6
Number and Results of Serolog Total Number of Treatments G	ical T iven	Cests	for	Syph	lis		1,	936 o:	f whic	h		95 wer	e Reactive

PROVINCIAL GAOL, Fort Saskatchewan, Alberta

Total Number of New Cases of Veneral Disease Classified as to Sex and Age of Patient:

	Un 1 M	der yr.		- 4 rs.	5 - yr M	14 s.		- 19 rs.		Yrs.		Not ated F	TOTALS
Gonorrhoea (all forms) Syphilis (acquired-primary) Syphilis (acquired-secondary)							8	16	36 1 2	86			146 1 4
TOTALS							9	16	39	87			151
Number of Cases of Syphilis Number of Cases of Gonorrhoe Number and Results of Serologi Number and Results of Bacteric Number and Results of Cultures	ical I	cal T	ests	ale Syph: for (	ilis Gono	4 4 cocci	i		of v	10 which which which	1)2		5 146 232 were Reactive 46 were Positive 280 were Positive

PROVINCIAL GAOL, Lethbridge, Alberta

Total Number of New Cases of Veneral Disease Classified as to Sex and Age of Patient:

	1	der /r.		- 4 rs.		14 rs.		- 19		yrs.	Age Stat	No <b>t</b>		TOTALS
Gonorrhoea (all forms)							1		15					16
TOTALS							1		15					16
Number of Cases of Syphilis Number of Cases of Gonorrhoea			Male Male	_	0 16		,							0 16
Number of Prisoners Admitted						3,	,608							
Number of Results of Serological	l Tes	sts fo	r Syp	hilis			585	of wh	ich	1	0 we	re Re	active	

SPY HILL GAOL, Calgary, Alberta

Total Number of New Cases of Veneral Disease Classified as to Sex and Age of Patient:

									0				
	Und 1 y	r.		s.	y ı	14 cs.	у	- 19		yrs.		Not ted	
	M	F	M	F	M	F	M	F	M	F	M	F	TOTALS
Gonorrhoea (all forms) Syphilis (acquired-secondary)									4		1		5 1
TOTALS									5		1		6
Number of Cases of Syphilis Number of Cases of Gonorrhoea			lale lale		1 5								1 5
Number of Prisoners Admitted							6,1	74					
Number and Results of Serologics	al Te	sts fo	r Sypl	nilis			3,7	04 of	whic	h		24 we	ere Reactive

### PRIVATE PHYSICIANS REPORTING CASES

Total Number of New Cases of Veneral Disease Classified as to Sex and Age of Patient:

	Uno 1 y			- 4 rs.	5 - yr		15 - y1	19	20 y & ox			Not ited	
	M	F	М	F	М	F	M	F	M	F	M	F	TOTALS
Gonorrhoea (all forms) Syphilis (congenital) Syphilis (acquired-primary) Syphilis (acquired-secondary) Syphilis (acquired-latent) Acquired-Tertiary (Cardiovascular) Acquired-Tertiary (Neurosyphilis) Type Undetermined	1			1	6	2	84	83 1 3 1	772 1 17 15 6 1	255 4 13 3	34	18	1,255 2 22 32 10 1 1 2
TOTALS	1			1	6	2	84	88	813	277	34	19	1,325
Number of Cases of Syphilis Number of Cases of Gonorrhoea				ale ale		42 96			nale nale	28 359			70 1,255
Number of Doctors in the Province	ece:	iving	g Co	nsul	tativ	e Se	rvice		73				

### NEW CASES OF SYPHILIS AND GONORRHOEA REPORTED IN ALBERTA - 1967

Total Number of New Cases of Veneral Disease Classified as to Sex and Age of Patient:

		der yr.	_	- 4 rs.	_	14 s.		- 19 ·s.	20 s & ov	yrs. ver	Age Stat M	ed	TOTALS
Gonorrhoea (all forms) Syphilis (congenital) Syphilis (acquired-primary) Syphilis (acquired-secondary) Syphilis (acquired-latent) Syphilis-Tertiary (cardiovascular) Syphilis-Tertiary (neurosyphilis) Type Undetermined	1			1	8	2	255	195 2 7 1	2,416 1 67 36 14 1	593 1 5 53 8	39	18	3,527 3 76 100 23 1 1
TOTALS	1			1	8	2	260	205	2,537	662	39	18	3,734
Number of Cases of Syphilis Number of Cases of Gonorrhoea		Ma Ma			127 718			`emal `emal					207 3,527

Total Number of Cases Reported by Various Clinics of the Division of Social Hygiene

SEX	SYPHILIS	GONORRHOEA	TOTALS
Male Female	85 52	1,795 450	1,880 502
TOTALS	137	2,245	2,382

### Cases Reported by Doctors and Military Authorities

	PRIVATE PHYSICIANS	ARMED FORCES	TOTALS
Syphilis Gonorrhoea	69 1,255	1 27	70 1,282
TOTALS	1,324	28	1,352

# REPORT OF THE PROVINCIAL LABORATORIES

J. M. S. Dixon, M.D., M.C.Path., Dip.Bact., Director

The Provincial Laboratories of Public Health at Edmonton and Calgary performed 1,510,746 examinations during 1967. This number is about 10% greater than that recorded in 1966 and reflects the continuing and apparently endless increase in the demand for diagnostic medical laboratory work. At the Calgary laboratory the increase in the number of examinations was 13% despite most difficult conditions; the laboratory is overcrowded, and Dr. Shute points out that lack of space not only prevents further desirable expansion and any increase in the size of the staff but also restricts the type of examinations that can be performed. The proposed new laboratory in Calgary is urgently required. The recently expanded facilities in the Edmonton laboratory are being used fully, and the development of new and more efficient techniques has ensured that the Provincial Laboratory maintains its high reputation throughout Canada.

### **NEW DEVELOPMENTS**

Towards the end of 1967, a machine was purchased that will automate certain serological procedures. It will enable a complement fixation test with a Reiter protein antigen to be used routinely in the serological diagnosis of syphilis. The method, which is a major technological advance, will enable more rapid and more accurate examinations to be made without increasing the number of technicians, and is believed to be the first application of such an automated serological technique in Canada west of Ontario. It is hoped that a second machine will be obtained in the near future for the detection of antibodies to viruses in large numbers of blood samples. Automated methods have been in use in other branches of laboratory medicine, notably clinical chemistry, for some years, but technical problems have delayed their application to serological procedures until very recently. There is no doubt that when such methods come into general use in microbiological laboratories it will be possible to make epidemiological surveys of the incidence of various infectious illnesses that are quite impossible by the manual techniques in current use. The implications in public health work are likely to be highly significant and important.

An additional epidemiological tool that was incorporated into the laboratory routine during the year is the typing of strains of Pseudomonas aeruginosa by a pyocine-typing method. Pyocines are specific antibacterial substances that are produced during growth by some strains of Pseudomonas aeruginosa and not by others. They are detected and identified by their inhibitory activity against certain sensitive 'indicator' bacteria that are used in the typing method. The technique enables strains to be characterised so that those from a common source can be identified; the application of the technique is similar to that of bacteriophage-typing of Staphylococcus aureus, a tech-

nique that has been in use at the Edmonton laboratory for some years. Pseudomonas infections are now becoming as much of a problem in causing serious, and not uncommonly fatal, infections in hospital as were staphylococci a few years ago, and the newly introduced pyocine typing method will be of considerable assistance to hospital personnel in identifying incidents of cross-infection and in tracing the source of infections so that they may be eliminated. The Edmonton laboratory is the centre from which the indicator strains used in this technique are distributed to laboratories throughout Canada.

One of the problems that continually confront any laboratory serving a large area of country is to ensure that specimens do not deteriorate, or change in any way that would affect the result of examination, during transportation to the laboratory. Some aspects of this problem relating to swabs were solved by my predecessor, Dr. Stuart, who devised a transport medium that is now in use in its original or a modified form throughout the world. Recently we have been concerned with another aspect that of urine specimens. Contamination with small numbers of bacteria commonly occurs during collection of specimens of urine. If the specimen can be cultured within an hour or two of collection the contamination is of little or no consequence, but if the urine does not reach a laboratory for two or three days, as is unfortunately sometimes the case with specimens that reach Edmonton from isolated communities, multiplication of contaminating organisms occurs during transit. It may then be impossible to decide in the laboratory whether the patient was suffering from a urinary tract infection or whether the high bacterial count merely consists of contaminating organisms that have increased in number during transit. In order to overcome this difficulty, we have introduced into trial usage an agar-filled plastic spoon which is in effect a miniature culture medium that the patient can inoculate by holding it in the stream of urine. The spoon is submitted to the laboratory where it is easy to distinguish between the scanty growth that indicates bacterial contamination of a specimen and the heavy growth indicative of a bacterial infection of the urinary tract. Our preliminary findings with the agar-filled spoons have been very encouraging and we propose to bring them into routine use shortly.

As the incidence of tuberculosis falls in Canada, infections by mycobacteria other than tubercle bacilli are becoming of increasing importance. Much work has been done in recent years in classifying and determining the significance of these so-called anonymous mycobacteria, and methods for the detection and identification of these organisms have now been introduced into the Provincial Laboratory. Atypical strains from other laboratories in the Province are received for study and classification.

Medical virology continues to advance rapidly and the new developments have been reflected in the initiation of new and useful diagnostic techniques in the Edmonton laboratory. A wider range of diagnostic tests is now offered, including a serological test for the diagnosis of rubella, and both cultural and serological examinations for the diagnosis of infection with Mycoplasma pneumoniae. M. pneumoniae is among the commonest causes of respiratory infection in children and young adults, often giving rise to pneumonia. The organism is sensitive to certain antibiotics and thus the detection of its presence by laboratory tests is of considerable value to the practising physician. The significance of the test for rubella is that the occurrence of this infection in a woman in the early months of pregnancy, when congenital abnormalities may be caused by the virus, can now be established with certainty. Other virus infections that are not liable to cause fetal disease may be clinically indistinguishable from rubella, but the distinction can now be made in the laboratory.

An interesting development in the Department of Pathology has been the use of electron microscopy for the examination of tissue biopsies. This work, which is undertaken by Dr. T. K. Shnitka, is concerned mainly with the investigation of renal disease. It is time-consuming and exacting, and only a limited number of specimens can be accepted for this technique at present, but it holds promise for the future. An important aspect of the cytopathology division during 1967 was the increase in the number of specimens examined from sites other than the uterine cervix; these specimens, which include sputum, bronchial washings and gastric washings, require special care and are much more demanding than the cervical smears, but this work represents a valuable extension by Dr. Kasper of the cancer-detection service which the laboratory now provides.

#### **REGULAR SERVICES**

### **Pathology**

Dr. Macgregor reports that 15,032 tissue specimens were examined in 1967, an increase of about a thousand over the previous year's figure. The division of cytopathology also continued to expand. The rate of increase in cytopathological examinations was less than in previous years, but nevertheless the total of 57,248 gynecological tests is more than 3,000 greater than in 1966. Dr. Kasper points out that from 1961 to the end of 1967, over 225,000 cytological examinations have been performed in this laboratory and 1,238 cases of carcinoma of the female genital tract detected. The value of this work in the saving of human lives and prevention of suffering is obvious. During 1967, the formal training period of the cytopathology technicians training school was extended to one year. Eight new junior students joined the class in July. The rental of a closed circuit television system suitable for microscopical use will shortly make possible the instruction of larger groups of students than hitherto. This and other proposed teaching aids should maintain the high quality of instruction while taking less of the time of the professional and senior technical staff. The training programme in pathology for medical graduates in the University Department of Pathology is also developing to Dr. Macgregor's satisfaction and the surgically removed tissues processed in the Provincial Laboratory play an important part in this programme.

### Bacteriology

The isolation of 381 virulent strains of Corynebacterium diphtheriae was the most notable feature of the work done at the Edmonton laboratory in 1967. This is in striking contrast to the three isolations of diphtheria bacilli recorded in 1966. They were mostly isolated from specimens taken in the last quarter of the year from a wide variety of locations in northern and central Alberta. Fortunately most of the strains were from symptomless carriers, generally fully immunized Indian or Metis schoolchildren, but a few cases of clinical illness were reported. The examination of throat and nose swabs from contacts of these cases and carriers during November and December imposed a tremendous load on the routine diagnostic section, the size of which is indicated by the fact that 31,543 such swabs were examined in 1967, an increase of more than 11,000 over the 1966 figure. The diphtheria bacilli isolated are still under investigation in the laboratory in order to determine whether they possess some unusual character that enabled them to spread widely in the Province while causing very little clinical illness.

In the tuberculosis section, minor structural alterations and the provision of ventilated safety hoods have improved the working conditions. The introduction of more sensitive cultural techniques has enabled us to reduce greatly the number of specimens that require inoculation into animals.

The enterobacteria section report a welcome reduction in the number of isolations of dysentery organisms in 1967 to 340, compared with 605 in 1966. Shigella flexneri returned to its position as the predominant species, from which it was displaced by Sh. sonnei in 1966. The fall in isolations has largely been the result of a decreasing incidence of the latter organism from 284 isolations in 1966 to 92 in 1967. Among the 608 salmonellae strains isolated, 25 different serotypes were identified. The three most commonly found types were Salm. newport, Salm. typhimurium and Salm, heidelberg. The number of isolations of Salm. infantis fell from 115 in 1966 to 36. Nine new cases of typhoid fever were diagnosed, but no isolation of paratyphoid bacilli was made. Three newly born infants in hospital were infected with Salm. typhi and the source of infection was found to be the mother of one of the babies. She admitted to having had typhoid fever more than 20 years ago and presumably has been excreting typhoid bacilli in her faeces ever since; in view of this it is noteworthy that she was employed as a hospital cook before her recent pregnancy.

During the year the Provincial Laboratory provided facilities for a course lasting one week in advanced bacteriological technique for trained technologists who work in various hospital and other laboratories in the Province.

### Virology

The virus division in Edmonton performed 58,589 examinations during 1967. No major epidemics of viral infection were studied in 1967, but a steady flow of positive results was reported by Dr. Morgante during the year. Outbreaks of respiratory disease due to adenoviruses, respiratory syncytial virus, mycoplasma species, and the

psittacosis group of organisms were investigated. Incidents of disease of the nervous system were shown to be due to Coxsackie viruses of Groups A and B, and mumps virus. The details shown in Table 7 indicate the wide range of viral and related agents that have been detected in Alberta in 1967. The list lengthens each year.

### Other Services

The laboratory continued to store and issue antibacterial and antiviral vaccines and sera throughout the province. Members of the staff of the Edmonton laboratory continued their close and mutually beneficial association with the Departments of Pathology and Bacteriology of the University of Alberta and participated in the instruction of medical, nursing and technical students.

### **STAFF**

Dr. R. D. Stuart, Director of the Provincial Laboratory since 1950, retired because of serious ill-health in April 1967. During the seventeen years that Dr. Stuart was in charge of the laboratory there were tremendous developments. The present quarters of the Edmonton laboratory were occupied and subsequently greatly extended to their present size, and the volume of work increased more than ten-fold, from less than 150,000 to more than 1,500,000 examinations annually. Furthermore, entirely new divisions of cytopathology and virology were established and developed. The Provincial Laboratory was indeed fortunate to have had such wise and far-seeing direction during such an important phase of its history. The excellent reputation of the laboratory not only throughout Canada but also overseas bears testimony to the high standard of work on which Dr. Stuart always and so rightly insisted.

Dr. Stuart was succeeded by Dr. J. M. S. Dixon, who was formerly Bacteriologist to the Wellesley and Princess Margaret hospitals, Toronto, and previous to that was Director of the Public Health Laboratory, Ipswich, England, for seven years.

At the Edmonton laboratory, Dr. B. Meilke returned to the Pathology Department in July after having spent a year in Baltimore, and Dr. Ian Geere joined the staff in November as Associate in Bacteriology. Dr. E. P. Crichton, Associate Pathologist at the Calgary laboratory since 1951, resigned in July on leaving Alberta, and Dr. C. Wood of the University of Maryland joined the staff there as a locum tenens Associate Pathologist for a period of one year.

Members of the staff of the laboratory attended medical and scientific meetings during 1967 in various parts of Canada and the United States, and a number of papers were read reporting work done in the Provincial Laboratorv.

I am most grateful to all members of the staff of the laboratories for the loyal support they have given me since I was appointed director.

A tabular summary of the work of the laboratories in 1967 is presented below. Some change in the presentation of the statistics is envisaged for the future. As the complexities of laboratory tests increase, it is becoming increasingly difficult to define an "examination" and in the future it is proposed to give more emphasis to the number of specimens examined, a readily defined figure, than to the number of examinations.

#### APPENDIX

Papers published in 1967 by members of the staff, Provincial Laboratory Dixon, J. M. S. (1967) Infection control in the operating room. Canad. Hosp., 44, 48 - 51.

Dixon, J. M. S. & Cuthbert, E. H. (1967) Isolation of tubercle bacilli from uncentrifuged sputum on pyruvic acid medium. Amer. Rev. Resp. Dis., 96, 119 - 122.

- Amer. Nev. Nesp. 36, 135-122.

  3. Herbert, F. A., Mahon, W. A., Wikinson, D., Morgante, O., Burchak, E. C., & Costopoulos, L. B. (1967) Pneumonia in Indian and Eskimo Infants and children.
  Canad. Med. Ass. J., 96, 257-265.

  4. Morgante, O. & Semanchuk, J. A. (1967) Virus of the California encephalitis complex: Isolation from Culiseta inornata.
- Science, 157, 692 693.

TABLE 1 EXAMINATIONS PERFORMED IN THE PROVINCIAL LABORATORIES
YEAR 1967

I DAR 1301		
CONTROL OF COMMON INFECTIONS		
	Edmonton	Calgary
Diphtheria Enteric and dysentery Fungus infections Intestinal parasites Naso-pharyngitis Tularaemia serology Tuberculosis	29,506 4,380 950 40,494 883	13,535 3,948 3,667 241 13,481 462 4,318
Undulant Fever serology Whooping Cough	883 107	462 13
OTHER DIAGNOSTIC AND MISCELLANEOUS		
Animal inoculations (other than T.B.) Antibiotic sensitivities Blood cultures Leptospirosis	503,573 2,325	212,930 155
Miscellaneous Paul-Bunnell test P.M. Bacteriology Referred cultures	909 429 5.009	19,257 996 ——————————————————————————————————
Special investigations Trichomonas Virus infections	17,145	3,775 ———
VENEREAL DISEASE CONTROL		
Gonorrhoea—Smears	21 228	6,418 3,409 56,729
SANITARY BACTERIOLOGY		
Food Products Water Milk and Cream Others	27,736	90 15,323 44 403
PATHOLOGY		
Diagnostic cytology—blood smears cervical smears bone marrows fluids  Routine diagnostic histology blocks Routine autopsy histology blocks	57,248 100 3,880 41,664	137 15,633 7 276 8,252 168
	1,126,453	384,293
	1,510	0,746

	TABLE	2		
CONTROL OF ENT		_	INFECTIO	NS
EXAMINATIONS			dmonton	
Blood and Clot cultures Faecal cultures Urine cultures Other examinations Serological tests			477 27,401 46 1,459 883	Calgary 338 2,844 197 140 2,102
DETAILS OF ISOLATIONS				
SALMONELLA S. heidelberg S. infantis S. montevideo S. newport S. saint paul S. thompson S. typhi S. typhim irlum Other Salmonella seroty SHIGELLA Sh. flexneri Sh. sonnei ENTEROPATHOGENIC 023:B6 035:B5 0111:B4 0119:B14 0127:B8 0128:B12 Other serotypes	DesE. COLI		29 23 6 71 12 5 9 59 38 174 92 62 13 27 81 26 15 57	9 13 6 23 7 1 1 9 23 17 25 26
CONTRO	TABLE	3 BERCULOS	SIS	
EXAMINATIONS	Edmont		lgary	
Microscopic Cultures Animal inoculations	13,27	5 37	2,216 1,480 622	
SPECIMENS	No.	Positive	No.	Positive
Pulmonary Meningeal Renal Other		550 8 80 38	1,973 22 323 282	$\frac{12}{6}$

	TABLE 6					
	FUNGAL INFECT					
Total specimens examin	ned 508 referred from	othor	dono	rtmonto)	4	,380
Skin, hair and nail spe Frequency of isolation	cimens				2	,316
requestey or toolaction	_		· T	wa an ta amank	vtes	19
D 470	Trichophyton	=409	T. T.	verrucosum rubrum	1	103
Dermatophytes = 473	Microsporum	= 31	{ M. M.	audouini canis		3
	Epidermophyton					33
	TARLE 7					
	TABLE 7					
	VIRUS INFECT	IONS				
Throat swabs for virus Faeces for virus isolat Other specimens for v Blood for serological e Blood for Paul-Bunnel Other specimens Specimens inoculated i	s isolationion irus isloationxamination ll test					257 283 212 972 981 4
Faeces for virus isolat Other specimens for v Blood for serological e Blood for Paul-Bunnel Other specimens	s isolationion irus isloationxamination ll test			Ву		283 212 972 981 4 192

WADI TI 4		
TABLE 4 CONTROL OF SYPHILIS		
	Edmonton	Calgary
CEREBROSPINAL FLUIDS—Wasserman (Kolmer)	856	927
BLOODS—VDRL		44.289
Wasserman (Kolmer)	15,083	8,036
Blood and cerebrospinal fluid reactive Blood and cerebrospinal fluid giving	717	286
reaction below laboratory diagnostic		
level	2,965	742
PRE-MARITAL BLOODS submitted according to Provincial Regulations	15,312 10	10,904
Reactive	10	1
TABLE 5		
SANITARY CONTROL OF WA	TER	
	Edmonton	Calgary
Water (number of specimens)  Coliform Test—Presumptive Confirmed Special Plate Count	13,158 3,153	6,239 5,573 820 2,658 6,272
Waters considered bacteriologically	10, (01	0,212

640

820

Plate Count
Waters considered bacteriologically unsuitable

TABLE 8		
SERA AND VACCINE DISTRIB	ITED	
The state of the s	OIDD	
	Edmont	on
BIAD (Tetanus-Polio Vaccine)	10 cc	941
Diphtheria Antitoxin	1.000 units	378
Diphtheria Antitoxin	40.000 units	144
Diphtheria Toxin for Schick Test	25 persons	1.391
Diphtheria Toxoid		803
Diphtheria Toxoid		110
Diphtheria Toxoid dilute, for reactors		555
Diphtheria Toxoid for sensitivity test		33
D.P.T.		7.112
D.P.T.	6 x 6 cc	1.194
D.T		5.739
D.T.		1.840
Gas Gangrene Antitoxin	10.000 units	781
Immune Serum Globulin	2 cc	1.346
Immune Serum Globulin		4.196
Poliomyelitis Vaccine	10 cc	2.907
QUAD	10 сс	11.547
Measles-killed		10,656
Measleslive		13,485
Measles—live		7,198
Rabies Antiserum	1,000 units	32
Rabies Vaccine		24
Rocky Mountain Spotted Fever Vaccine		155
Rocky Mountain Spotted Fever Vaccine		72
Sabin Oral Vaccine		15,150
Scarlet Fever Antitoxin		
Smallpox Vaccine		3,356
Smallpox Vaccine		16,109
Snakebite Antivenin		16
Staphylococcus Antitoxin		66
Staphylococcus Toxoid		1,580
Tetanus Antitoxin		1,588
Tetanus Antitoxin		89
Tetanus Toxoid		5,313
Tetanus Toxoid		653
T.A.B.		1,793
T.A.B.		612
T.A.B.T.		2,935
T.A.B.T.		607
Rabies Vaccine (Duck Embryo)	I dose	57

TABLE 9

MINIMUM COMMERCIAL VALUE OF WORK PERFORMED

(AT RATE OF CURRENTLY RECOMMENDED PROVINCIAL SCALES WHERE APPLICABLE)

EXAMINATIONS I	Edmonton	Value	Calgary	Value	Total
EMAINTALIONS -	00 4 70	\$ 114,537	13.565	\$ 40.695	\$ 155,232
Diphtheria	00 500	147.530	3,948	19,740	167,270
Enteric-dysentery		17,520	3,667	14,668	32,188
Fungus infections	050	4.750	241	1.205	5,955
Intestinal Parasites	10 10 1	80.988	13.481	26,962	107,950
Naso-pharyngitis	000	1.766	462	924	2,690
Tularaemia serology		155,406	4.318	25,908	181,314
Tuberculosis		1,766	462	924	2,690
Undulant Fever serology	105	214	13	26	240
Whooping Cough		1.585	17	85	1,670
Animal Inoculations (other than T.B.)		167.858	212.960	70.987	238,845
Antiblotic sensitivities—disc	0.00#	11.625	155	775	12,400
Blood Cultures	100	990	100		990
Leptospirosis		100.332	19.257	38.514	138.846
Miscellaneous		3.636	996	3.984	7,620
Paul-Bunnell test	100	1,716			1,716
P.M. Bacteriology		20.036	72	288	20.324
Referred Cultures Special Investigations		85.725	15	75	85,800
Trichomonas		44.018	3,775	7.550	51.568
Virus infections		703.068			703.068
Gonorrhoea—Smears		7.122	6.418	12.836	19.958
Cultures		84.912	3.409	13.636	98.548
Syphilis		782.155	56.729	283,645	1.065,800
Food Products		9.232	90	360	9.592
Water		55.472	15.323	30,646	86.118
Milk and Cream	21,100		44	196	196
Other			403	1.612	1.612
Diagnostic Cytology—blood smears	96	480	137	685	1.165
cervical smears		286 240	15.633	78.165	364,405
bone marrows		1,000	7	70	1.070
fluids		19,400	276	1.380	20.780
Routine diagnostic histology		416.640	8.252	82,520	499,160
Routine autopsy histology		153,735	168	2,520	156,255
TOTALS	1,1 <b>2</b> 6,453	\$3,481,454	384,293	\$ 761.581	\$4,243,035

# DIVISION OF ENVIRONMENTAL HEALTH SERVICES

H. L. Hogge, B.Sc., P.Eng., Director

This Division of the Department administers the programs designed to maintain a healthy public environment in Alberta. In particular, the control of air and water pollution, public waterworks and sewerage systems, swimming pools, plumbing, and co-ordination of public health inspection services, are areas of responsibility.

The recent, and still current, urban population and industrial growth in the Province has required specialization and expansion in the organization of the Division so that in 1967 we have six separate sections of the Division. These are:

- 1. AIR POLLUTION CONTROL
- 2. WATER POLLUTION CONTROL
- 3. MUNICIPAL ENGINEERING
- 4. ENVIRONMENTAL HEALTH SERVICES LABORA-TORY
- 5. PUBLIC HEALTH INSPECTION
- 6. PLUMBING INSPECTION

The Division of Environmental Health Services of the Department is responsible to the Minister through the Deputy Minister of Health. In Alberta, the administrative authority for the control of the public health function outlined above is the Provincial Board of Health. This Board is the "approving" authority and, subject to the approval of the Lieutenant Governor in Council, may make and issue orders, rules and regulations respecting these and other matters as provided for in The Public Health Act. The Provincial Board of Health is composed of the Provincial Medical Officer (Deputy Minister of Health) as Chairman, and the Director of the Division of Environmental Health Services and the Director of the Provincial Public Health Laboratories as members.

In addition to the normal functions of the Division, members of the staff have participated during 1967 in the work of two special Committees. One Committee is entitled "Solid Wastes Disposal Study Committee", with 14 members and its purpose is to study all pertinent aspects of waste disposal practices in Alberta, with particular reference to the Calgary and Edmonton areas. The other Committee is entitled "Alberta Advisory Committee on Pollution Control" with 87 members and is advisory to the Minister of Health, the Honourable Dr. J. Donovan Ross. A total of 12 sub-committees have been formed to consider specific areas such as research, air and water quality criteria, specific areas of water or air pollution significance, and public information.

The specific work carried out by the various Sections of the Division during the calendar year, 1967, has been summarized by the 'Head' of each Section and is presented below.

### 1. AIR POLLUTION CONTROL SECTION

Mr. S. L. Dobko, P.Eng., Head During 1967 the work of the Air Pollution Control Section in general has continued to expand in quantity in certain areas as it has in the previous years. The Section's work was directed at controlling the pollution from new industrial plants locating in Alberta, assessing and reducing, if necessary, the pollution from various industrial operations already in existence in Alberta utilizing the latest developments and techniques, assessing the level of pollution in the atmosphere in urban areas as well as in the vicinity of industrial operations throughout the Province.

Besides the 'Head' of this section, the staff consists of one senior Engineer, three junior Engineers, two senior Laboratory Technicians, four Laboratory Technicians and one Laboratory assistant. In addition to this, from approximately May to September, there are three summer positions which are filled usually with two engineering students (going into third or fourth year of their studies) and one technical student who has completed the first year of his two-year program.

Due to the fact that we were unable to fill one of the engineering positions which was still vacant at the end of the year, we employed this past summer an additional university student to cover the vacant position and thus enable us to carry out to a good degree the scheduled work load.

### I OPERATION OF MOBILE LABORATORIES

Two mobile air pollution laboratories were operated on a continuous basis throughout the province. These units, as in previous years operated by technicians of this Division, were utilized to investigate complaints and observe general air pollution levels in the vicinity of gas processing plants and in sour oil field areas measuring sulfur dioxide and hydrogen sulfide levels along with a number of meteorological parameters such as wind, temperature, humidity and barometric pressure.

In the 1967 calendar year 29 surveys were carried out in 21 different areas.

Unit No. 1585 operated a total of 330.5 days with 34.5 days lost due to moving of the unit, mechanical difficulties and annual equipment overhaul. The other unit, No. 1646, operated for a total of 335.25 days and 29.75 days were lost due to moving of the unit, mechanical difficulties and annual equipment overhaul.

Also operated by the mobile trailer operators were additional  $H_2\,S$  samplers at two other locations near the sites of the mobile laboratories for a total of 32.75 days.

### II PERMANENT FIELD MONITORS

The Division is presently maintaining 152 exposure cylinder stations for the determination of  $H_2S$  and 156 exposure stations for the determination of  $SO_2$ . This is a net increase of 18 stations (approximately 13%) over last year. Also located throughout the province are 45 stations which are maintained for the determination of dustfall. In addition to the above, 7 fluoride monitoring stations are

being maintained. These stations are changed on a monthly basis and are analyzed by the Environmental Health Services Laboratory.

### III POLLUTION SOURCE SURVEYS:

To check if plant operations were in compliance with the Air Pollution Regulations or within their approval conditions, 15 source surveys were undertaken for the determination of SO<sub>2</sub>, 5 for particulate and 2 for (particulate, fluoride, ammonia and phosphates). The total for the year is 22, an increase of 6 over last year.

In order to evaluate existing air pollution control facilities and to make recommendations for proper air pollution control 23 plant tours were taken.

### IV INCINERATORS:

Since the publication of the 'Incinerator Standards for the Province of Alberta' there has been an increasing number of submissions to be reviewed. This year there was a decrease in the number of applications processed but this is not unreasonable as last year the increase was 216% over the previous year. The number of applications given approval this year was 129, a decrease of 57 from 1966.

# V APPROVALS ISSUED TO EXISTING PLANTS AND NEW INDUSTRIES:

Approvals were given to 23 new plants for air pollution control facilities at their establishments. In addition 11 approvals were given to plants which were in existence prior to 1961 or which were expanding or changing some of their previously established operations.

### VI EFFECT OF SO<sub>2</sub> UPON VEGETATION:

To study the effect of  $\mathrm{SO}_2$  upon vegetation, samples were again collected in the vicinities of gas plants. In total, 417 samples were gathered by members of this Division and the Department of Lands and Forests and all of the analysis done by the Environmental Health Services Laboratory of this Division.

### VII SPECIAL PROJECTS:

A meteorological research project was initiated at Calgary and Edmonton under a contract with Geoscience Research Associates Ltd. Basically this project involves the study of meteorological conditions and parameters as they pertain to the cities of Calgary and Edmonton and includes such items as "Heat Island Effect" (horizontal and vertical temperature measurements), "Inversion Measurements" (vertical temperature structure), and "Low and High Level Wind Measurements".

In connection with this project, the installation of temperature inversion measuring equipment purchased in 1966 was completed on the C.N. Tower building in Edmonton. Additional equipment for this project, including a tower, vertical temperature measuring equipment, wind speed and direction equipment and thermographs were ordered and some of this equipment had been delivered by the end of the year. This project also included a mobile system whereby vertical temperatures would be measured up to heights of 750 feet utilizing a buoyant helium filled kytoon.

Another research project was initiated this year for us by the University of Calgary. This involves a study on atmosphere dispersion of pollutants and the prediction of the same by the use of mathematical models utilizing a computer for high speed calculations. Work on this project has been progressing quite well and basic ground work has been carried out for the project.

# VIII MAINTENANCE AND CALIBRATION OF EOUIPMENT:

To prevent major downtime in the operation of the pollution monitoring equipment a routine maintenance and calibration schedule was continued. This work is essentially carried out by the senior laboratory technicians.

### IX URBAN MONITORING:

As in the previous year, there are 6 smoke samplers operating in Edmonton and 2 in Calgary.

During 1967, high volume samplers were operated in both Edmonton and Calgary. The samplers operated on a random schedule of approximately 4 sampling days per month.

An oxidant analyzer was placed in Calgary to operate on a continuous basis. The oxides of nitrogen and oxidant analyzer continued to be operated in Edmonton and a hydrocarbon analyzer was placed into service here as well; however, due to operating problems with the instrument no useful record of data was obtained.

### X COMPUTER PROGRAMS:

In 1967 an addition was written to the monthly Edmonton and Calgary reports to correlate the different pollutants with the wind.

Another program was written to calculate atmospheric concentrations of sulphur dioxide and hydrogen sulfide directly from the laboratory analysis of permanent field monitors thus saving time in the calculations of these concentrations then transcribing them twice before they went on the computer.

### XI SPECIAL STUDIES:

The investigation of oil field operations in respect to battery operations in the Valleyview area that was commenced in 1966 was continued and finalized in 1967.

Investigations in two other areas, Nevis and Harmattan, were carried out where a high frequency of complaints were received due to the operations of gas plants and remedial recommendations were made.

### XII INVESTIGATION OF COMPLAINTS:

Ninety-eight complaints of air pollution were investigated and corrective solutions were asked for, where complaints were verified.

### XIII SEMINARS, COURSES, CONFERENCES:

A seminar was held in conjunction with the Meteorological Research Project and included representatives of the Air Pollution Control Section, the Director of this Division and the representatives of Geoscience Research Associates Ltd. who are carrying out the meteorological study. The purpose of this seminar was to familiarize both sides with each other's work and to get a better understanding of the

aims and purposes of the meteorological study as it pertains to air pollution and the reverse.

### XIV ADVISORY COMMITTEES:

An Alberta Advisory Committee on Pollution Control was established in 1967. Within the structure of this Committee, five Sub-committees were set up to deal with various areas in air pollution, these being:

- 1. Air Pollution Research.
- 2. Air Quality Criteria.
- 3. Air Pollution Control Edmonton.
- 4. Air Pollution Control Calgary.
- 5. Air Pollution Control Sour Gas & Oil Industry.

### 2. WATER POLLUTION CONTROL SECTION

### Mr. E. E. Kupchanko, M.Sc., P.Eng., Head

The Water Pollution Control Section continued in its activities of assessment and control of water pollution in Alberta. This was accomplished by regulating municipal and industrial waste waters and other materials released or allowed to escape to surface waters. The staff was increased by one engineer and two technicians. The temporary summer technical assistant was switched to a winter position due to the increased work load during this time of year. The staff now consists of two engineers and four technicians all supervised by the Head of the Section.

The comprehensive water pollution assessment program was continued during the year co-ordinating waste water discharges to overall river performance. Increased utilization of data processing facilities was completed and several extensive programs are presently being utilized to aid in the handling and interpretation of chemical and bacteriological analyses of the river and industrial effluents. Similarly, a rapid notification of industries of the assessments of discharges and their relationship to the receiving waters has been incorporated. Consolidation of analyses into an overall river basin management scheme is continuing.

Winter field sampling methods have been improved and additional sampling equipment has been obtained to facilitate sampling under adverse conditions. Less time is now involved with analytical methods resulting in superior and more representative samples.

The techniques of sampling with the carbon filter apparatus has been improved and the increased utilization of this method for determining organic constituents is planned.

A set of "Water Quality Criteria" for the North Saskatchewan River was drafted and it is hoped a further refinement of Water Quality Objectives for other rivers in the Province will be completed.

A meeting was held May 25th to review the Water Quality in the North Saskatchewan during the 1966-67 period. The meeting was attended by representatives of the Alberta Department of Health, Saskatchewan Water Resources Commission Public Health Engineering Office, the Manitoba Department of Health, the Federal Public Health Engineering office at Ottawa, the industries located along the North Saskatchewan River in Alberta and the larger

municipalities situated adjacent to the North Saskatchewan River in Alberta.

Sampling was again broadened this year with the Canadian Salt Company at Lindbergh assisting the department in determination of dissolved oxygen values on a daily basis during critical times of the year. These results will enable the department to maintain a continual assessment of this prime water quality parameter as the water leaves the province.

Land and trailer have been acquired for the automatic monitoring station near Redwater and this station will be in operation as soon as the monitoring equipment is received.

Sixteen approvals for the release and control of waste waters by industrial concerns were granted during the year.

During the 1967 season, 23 applications for addition of chemical for the control of aquatic weeds were received. Of this total, seven applications were granted Provincial Board of Health Approval while the remaining were not accepted.

A more detailed summary of the Water Pollution Control Program during the calendar year, 1967, is presented below:

### I RIVERS

a) North Saskatchewan River:

The North Saskatchewan River was sampled on a regular basis during the winter months of 1967. Weekly samples were taken at Fort Saskatchewan Bridge and at Vinca Ferry, while the other locations: Edmonton 105 St. Bridge, Waskatenau Bridge, Duvernay Bridge, Elk Point Bridge and Lloydminster Ferry were sampled bi-weekly. Drayton Valley Bridge and the Brazeuz Dam which are the upstream locations were sampled twice during the year.

Activated carbon absorption studies for organic contaminants have been extended to include an upstream location at Devon (Devon Water Treatment Plant). Studies were also conducted at Fort Saskatchewan (Sherritt Gordon Water Treatment Plant) and Lindbergh (Canadian Salt Company Water Treatment Plant).

Twenty-four hour composite sampling surveys were completed in January and again in December. These surveys included all municipal and industrial waste effluents between Devon and Waskatenau.

Bacteriological sampling has been increased during 1967. Samples are now obtained at all locations during each survey of the river.

The total number of river samples taken in 1967 were 218 compared to 162 for the previous year. Fifty-six of these samples were for bacteriological studies.

### b) The Bow River

Five week-long surveys were conducted on the Bow River during 1967 representing a total of 45 samples taken from five locations downstream from Calgary. A survey was conducted in August immediately after the "fish kill" in the Bow River. Indications were that the kill was due in part to a high ammonia content in the river water.

Chemical and bacteriological studies of the river water from Banff to Calgary was again made during 1967. This survey includes waste water from all sources in Banff National Park whose effluent enters the Bow River.

Taste and odor studies in trout were again conducted

as in the previous year, with the assistance of the staff at the Calgary Fish Hatchery. The 1967 program was different in that only the tests to determine if the river water would impart taste and odor to fish, were made; previous studies sought also to determine the concentration of contaminants at which objectionable tastes and odors were evident.

### c) The Oldman River

Four surveys of the Oldman River were conducted during 1967 in comparison with three surveys made in the previous year. A greater emphasis has been placed on the assessment of the river water during late fall. Sugar factory waste combined with low flow and ice cover on the river makes this period the most critical from the standpoint of water quality.

### d) The Athabasca River System

The Athabasca River System was sampled on a once-per-month basis, during the winter season from Hinton to Tar Island representing a total of 45 samples taken from seven locations, five on the Athabasca River, and one location each on the Lesser Slave and McLeod Rivers. The McLeod River was sampled on a less frequent basis.

A special investigation in the late summer was made on the river from the head waters at the Columbia Ice Fields in Jasper Park to Hinton. This survey included the waste waters from all major sources within the park proper. Fourteen samples were taken, seven of which were for bacteriological analysis.

### e) The Red Deer River

Three surveys of the Red Deer River were completed in 1967. These included samples from the South Saskatchewan River near Empress and at Medicine Hat.

Sampling at Content Bridge has been increased due to a number of complaints from this area. Greater emphasis on samples from the gas plants in this area are now being taken during each Red Deer River survey to evaluate more fully the effects of the industrial wastes on the river.

### f) The Peace River System

The rivers included in this system are: The Wapiti River, Smoky River and the Peace River. The five locations on the Peace River System were sampled once during 1967.

### g) Other Rivers

The Blindman River, Milk River, Sheep River, Beaver River, Marie Creek and Tail Creek were sampled once during the calendar year. Sampling usually coincided with surveys of larger rivers or where ponded industrial effluents are released periodically.

### II INDUSTRIES

A greater effort has been made in 1967 to correlate the quality of industrial effluent with that of the receiving waters, resulting in 40 industries being sampled. The greater portion of these industries were composite sampled for 24 hours in conjunction with river surveys. The following is a breakdown of the number of samples taken of industries associated with river courses:

River	<b>Industrial Samples</b>
1. Oldman River	6
2. Bow River	22
3. Red Deer River	24
4. Athabasca River	16
5. McLeod River	8
6. North Saskatchewan River	100

Industries such as gas and sulphur plants and gravel washing operations were sampled on a less frequent basis. A total of 39 samples were obtained from these sources.

### III DOMESTIC SEWAGE EFFLUENT

### a) Edmonton Sewage Treatment Plants

Composite samples from the sewage treatment plants in Edmonton were taken on a monthly basis during the winter season. Monthly sampling of the packing plant lagoons has been discontinued. These samples are now obtained once per year during the release of the ponded waste in the spring.

### b) Calgary Sewage Treatment Plants

Surveys of the sewage treatment plants in Calgary were increased to five from the three surveys in the previous year. A total of thirty 24-hour composite samples of both influent and effluent were obtained from Fish Creek, Ogden and Bonnybrook Sewage Treatment Plants.

### c) Southern Alberta Sewage Treatment Plants

Twenty-four hour composite samples from the two sewage treatment plants in Lethbridge were taken during four week-long surveys in the Southern Alberta area. This represents thirty samples, four of which were grab samples from the Taber Sewage Treatment Plant.

### d) Other Sewage Treatment Plants

Twenty-two other sewage samples were obtained during the year; surveys were conducted at Banff and Jasper National Parks and at the Canadian Forces Base at Cold Lake.

The foregoing report summarizes the activities of the Water Pollution Control Section during 1967. In addition to this program investigation of complaints and studies of a minor nature extended throughout the year.

### 3. MUNICIPAL ENGINEERING SECTION:

### Mr. R. N. Briggs, M.Sc., P.Eng., Head

Work in the Municipal field increased in 1967 with 256 submissions for new water and/or sewage systems and for extensions to existing systems, as well as 11 public swimming pools and 18 semi-public swimming pool submissions.

With a complete staff the number of field inspections increased by approximately 70% over 1966 and 67% of the communities with water and/or sewer systems were inspected.

Fluoridation of public water supplies continues to increase. There are now 35 communities either fluoridating their water or have passed their fluoridation bylaws.

The Operator's Schools continued to be very well

attended and there are 20 operators of Water Treatment Plants that completed the W.C.W.S.C. correspondence course who will be writing their exams in 1968.

University students were again hired for summer work, which enabled us to check several sewage systems which otherwise would not have been checked. Certification of Water and Sewage system operators and the respective system was commenced during the summer. It is expected that this will be completed in 1968.

### WATERWORKS AND SEWERAGE SYSTEMS

As required by The Public Health Act any new or extensions to existing water and/or sewage systems must be approved by the Provincial Board of Health. During 1967 there were 256 such approvals recommended to the Board. Of these, 69 were for the Provisional approval and 187 were for Final approval authorizing construction of the project. This is an eleven percent increase over the number of Certificates issued in 1966.

The estimated value of the 187 final certificates was \$19,974,878.31. TABLE I shows the number of final certificates and the value of same since 1953.

The certificates issued and their estimated cost have been broken down into five basic categories and are given in

### TABLE II.

As of December 31, 1967, there were 274 communities serviced with water and/or sewerage systems; 233 communities have water systems, 12 of which do not have sewage systems; 242 communities have sewage systems 21 of which do not have waterworks systems.

There were 5 waterworks systems and four sewage systems installed or approved for six communities during 1967. The communities, and their respective systems which were installed are given in TABLE III. TABLE III also shows three systems which were not previously recorded.

It is interesting to note that there is only one community with over 1000 population that does not have a waterworks system (Sylvan Lake which has private wells) and one that does not have a sewage system (Bellevue). In addition, there are only two towns without waterworks systems, and one without a sewage system in the 500 to 1,000 population range. Additional statistics in this regard are provided in TABLE IV.

During the year, 398 inspections of water and/or sewerage systems were made to 183 of the communities so serviced. This includes inspections of complaints, follow-up inspections and general inspections.

TABLE I

REVIEW OF FINAL CERTIFICATES AND ESTIMATED COST OF WATER AND SEWAGE WORKS PROJECTS

Year	No. Issued	Estimated Cost	Year	No. Issued	Estimated Cost
1953	97	\$12,465,396	1961	172	\$18,876,977
1955	109 107	\$16,455,810 \$17,524,020	1962 1963	184 146	\$ 9.427,465 \$ 8.818,845
1956 1957	99 110	\$15 803,965 \$11,430,812	1964 1965	180 195	\$33,758,486 \$16,632,629
1958	132	\$ 9,795,223	1966	176	\$16.895.259
1959 1960	160 189	\$15,733.142 \$16,820,264	1967	187	\$19,974,878
1000	103	φ±0,020,204	,		

TABLE II CERTIFICATES ISSUED DURING 1967

	Provisional Certifi			Final Certificates
	No. Issued	Estimated Cost	No. Issued	Estimated Cost
A.	New Systems Water 12 Sewer 9 TOTAL 21	\$2.193.240.00 (12 communities	9 7 16 5, 2 miscellaneous)	\$1,798,871.00
B.	Water & Sewer Extensions			
	24 (57 Comm	\$1.651,975.00 unities, 4 miscelland	116 eous, 3 superseded,	\$8,128,430.05 1 cancelled)
C.	Water Treatment, Supply . S	storage		
	21	\$1,645,416.70 (35 communitie	26 es, 1 superseded)	\$916,132.00
D.	Sewage Treatment			
	3	\$17,429,000.00 (17 com	16 nmunities)	\$6,561,738.76
E.	Storm Sewers			
	None Issued	(13 con	13 nmunities)	\$2,569,706.50
	TOTAL 69	\$22,919,631.70	187	\$19,974,878.31

TABLE III COMMUNITIES WITH NEW WATER AND/OR SEWER SYSTEMS 1967

Water	Sewer
# # # # #	#
++	#
##	# #
	#######################################

\*Water or Sewer systems installed prior to 1967 but not previously recorded.

		TABLE IV SUMMARY			
Population Group	Number of Communities	Numbe <b>r Served</b> With Waterworks	%	Number Served With Sewerage	8
0ver 10,000 3,000 - 10,000 1,000 - 3,000 500 - 1,000 300 - 500 150 - 300 Under 150	6 21 49 45 43 76 34	6 21 48 43 37 60 18	100 100 98 95.5 86 79 33	6 21 48 44 41 63 19	100 100 98 97.8 95.4 83 56
TOTAL	274	233	85	242	88.5

NOTE: Jasper, Banff, Waterton not included. Hamlets with neither water nor sewerage systems not included. Institutes not included.

### SWIMMING POOLS

The Municipal Engineering Section is responsible for the approval and initial inspection of both public and semi-public swimming pools. 1967 showed a marked increase in pool construction in the Province with a total of 9 public and 10 semi-public pools being approved for construction.

During 1967 a total of 18 public pools and 22 semi-public pools were inspected, many of which were requested by the various local Health Units throughout the Province.

A hi-rate sand filter test was conducted at the Vermilion Swimming Pool for a period of one week in August, 1967. The results obtained during the test period indicated that a high rate of filtration could produce a water of acceptable quality in swimming pools where light or no continued heavy bathing loads are encountered.

### PUBLIC POOLS

Plans and specifications for 11 new public pools were submitted for approval in 1967. Of these, approval for construction was granted for the following 9 pools:

- 1) Barrhead 6) Forestburg
- 2) Calgary Shouldice 7) Milk River\*
- 3) Castor 8) St. Albert 4) Champion 9) Spirit River
- 5) Coronation

\* This pool has not been constructed.

The two other public pool submissions are still pending and are expected to be approved early in 1968. These pools are at Didsbury and Medicine Hat.

In addition to the construction of new pools, plans were submitted for renovations and additions to 5 existing public pools. The submissions for the 4 pools listed below were approved:

- 1) \*Edmonton Borden Park
- 2) \*Edmonton Fred Broadstock
- 3) \*Lethbridge Fritz Sick
- 4) \*Strathmore
- 5) Fort Saskatchewan
- \* Approved in 1967.

### SUMMARY

There are now 89 public swimming pools and 101 semi-public swimming pools in the Province. A detailed breakdown of the total number of pools is presented in TABLE V.

TABLE V

SWIMMING POOL STATISTICS TO DECEMBER 31, 1967

CATEGORY NUMBER
Public Pools 89
Semi-Public Pools 39
—Apartments 27
—Clubs 24
—Institutes 4
—Camps 7

National Park Pools 10
Department of National Defence Pools 7

TOTAL 207

### **FLUORIDATION**

Fluoridation of Municipal water supplies is under the control of this Section.

Monthly reports from the communities fluoridating are forwarded to this Section for checking and to determine the fluoride residual, based on the amount of chemicals added and water treated. When a report indicates a high reading the respective community is notified and requested to adjust their feed rate.

In addition to the monthly reports a yearly summary is prepared for each town and the respective fluoridation program reviewed.

A list of the communities now fluoridating their water supplies as well as those places which have approved their fluoridation bylaws is given in TABLE VI.

TABLE VI COMMUNITIES WHICH HAVE FLUORIDATED WATER SUPPLIES OR HAVE PASSED THE FLUORIDATION BYLAWS

Year of Installation	Communities	1967 Population
1958	Fairview Red Deer	1,884 26,173
1959	Devon	1,283 11,417
1960	Innisfail	2,531
1961	Bonnyville	2,275
1962	Athabasca St. Albert Fort Saskatchewan Leduc Beaumont	1,672 9,828 4,277 3,029 194
1963	Coaldale Peace River Ralston	2,541 5,024 2,000
1964	Barrhead Kinuso Mayerthorpe Milk River Redwater	2,718 376 961 861 1,041
1965	Bow Island*	1,160 2,502
1966	Cardston* Drayton Valley* Eik Point* Hanna* Picture Butte St. Paul*	2,721 3,352 775 2,633 1,013 3,655
1967	Drumheller Edmonton Grand Centre* Hinton* Taber* Vegreville Westlock* Sherwood Park *Approved but not Fluoridating	3,574 381,230 1,746 4,461 4,561 3,533 2,792 5,000

### **SAMPLING**

The amount of sampling from water systems and sewage systems and swimming pools is continuing to increase. This year there was a 68% increase in the number of samples lifted. This is due to the increase of staff and the hiring of summer students which has permitted us to assist the operators of water and sewage systems and to conduct surveys of existing systems.

A breakdown of the samples taken is as follows:

Type of Sample		River, Tap, Well, etc.	Fluorides	Sewage	Misc.	Total
No. of Samples	Tested	99	200	138	32	469

It is expected that more time will be required for the assistance of water and sewage treatment plant operators and also in controlling these systems. This will further increase the number of samples submitted to Environmental Health Services Laboratory.

### **SCHOOLS**

The Water and Sewerage Operator's Schools were continued in 1967. Two schools were held; a second year with 73 operators in attendance and a graduate school with 65 operators in attendance.

To date attendance figures for these schools are as follows:

(a) (b)	Completed Completed	first year coursesecond year course	394 318
		third year course	216
		graduate schools	151
(e)	Number of	communities represented	178

Due to the numerous inquiries regarding the schools a first year school will be held in 1968. This school was originally scheduled for 1969.

On completion of each year's schools, a book is prepared which contains copies of all papers presented at the school. These books normally run to about 120 pages.

### **STAFF**

The Municipal Engineering Section now has a complete staff which consists of four Engineers and a Technician.

In addition, two university students were employed during the summer of 1967.

### OTHER AREAS

# A. Western Canada Water & Sewage Conference Correspondence Course

This course is a 13-lesson correspondence course on Water Treatment for the operators of Water Treatment Plants. Although the course is under the jurisdiction of the W.C.W.S.C. it is supervised by this Section.

TABLE VII gives the statistics regarding this course. There has been a high degree of interest in the course as indicated by the fact that there are presently 27 men enrolled in the current session.

TABLE VII
W.C.W.S.C. CORRESPONDENCE COURSE FOR
WATER TREATMENT PLANT OPERATORS IN ALBERTA

	1962	1963	1964	1965	1966	1967	Total
Number taking course		16		1	2	23	70
Number Completing Course	14	6	_	1	1	11	33
Number Passing Course Number of Communities	12	6	_	1	1	*	20
Represented	20	12		1	1	13	

<sup>\*</sup>The eleven men who completed the course in 1967 will be writing their exams during January 1968.

### B. Health Units

Health Unit officers were visited during inspection trips to see if any problems concerning water and sewage systems had been drawn to their attention. Related problems often occurred, being either of a general engineering nature, or specific water and/or sewerage problems, or of questions concerning the Division of Environmental Health Services generally.

### C. Microfilming

The backlog of correspondence and drawings was completed and Microfilming of current data will be completed on a yearly basis.

### D. Classification of Operators and Treatment Plants

Certification of Operators and their respective systems was commenced in the summer of 1966 with the assistance of P. H. Bouthillier.

Certification of systems is being classified in four categories, namely: Water treatment, water distribution, sewage collection, sewage treatment. Operators are being classified with respect to the systems they operate, their experience and education, and courses attended.

There is considerable work in classifying these systems and operators, however, we expect that it will be operational in 1968.

### E. Publications

The following publications were distributed or prepared during 1967.

(a) Standards for Water Supply and Sewage
(b) A Survey of Water and Sewage Systems in Alberta
(c) Swimming Pools in the Province of Alberta
(d) 2nd Year Operator's Manual
(e) Graduate School Operator's School

### 4. ENVIRONMENTAL HEALTH SERVICES LABORA-TORY

Mr. W. E. Kortsch, Head

The work has continued to expand significantly. Emphasis was put on planning and introducing methods and instruments enabling the laboratory to meet requirements for specialized analytical studies in preventing pollution problems and counteracting specific pollution situations.

### A - Samples Analyzed

		Number of Samples	Number o Tests
1.	Water Pollution Control Section River Water Industrial Waste Water Sewage Carbon Filter Miscellaneeous	409 211 132 3 21	
	Total	776 —1	7604 24
2.	Municipal Engineering Section River, Well, Tap Water, Swimming Pool Water Drinking Water for Fluorides Sewage Miscellaneous	99 200 138 32	
	Total	469	2449
	% Increase over Number in 1966	68	72
3.	Air Pollution Control Section Total Sulfation Hydrogen Sulfide Dustfall Water Soluble Calcium in Dustfall Hydrochloric Acid Soluble Calcium in dustfall Heavy Metals in Dustfall	1640 1531 482	1640 1531 482 136
	(lead, copper, zinc, nickel)	94	101 94
	pounds in Suspended Particulates Heavy Metals in Suspended Particulates (lead, copper, zinc, cadmium) Fluorides Vegetation for Total Sulfur Stack Samples Miscellaneous		21 64 77 417 39 11
	Total	4284	4749
	% Increase over Number in 1966	11	13
	Overall Total (all three sections)	5529	14,802
	% Overall Increase over Number in 1966	13	26

Especially significant is the steadily growing demand for more detailed analyses which is reflected in the 26% increase of the total number of tests over the year 1966.

### B – Analytical Work for Other Departments

1. Total sulfur determinations of Lichen samples were performed in conjunction with surveys conducted by the Crop Clinic, Department of Agriculture, in conjunction with our Division.

2. In conjunction with a survey of well water samples conducted by the Oil and Gas Conservation Board Laboratory, samples were analyzed for pH, Biochemical Oxygen Demand, Ammonia, Chlorides and Threshold Odor Number.

C - Change in Laboratory Organization

Considering the initially mentioned necessity for conducting specialized analytical studies requiring complex methods and instruments, the laboratory was divided in two branches, the "Routine Analysis" and the "Non-Routine Analysis".

### 1. Routine Analysis Branch

Most of the tabulated analytical work (Section A) was performed in this branch.

In addition "internal" studies were conducted in order to keep the quality of performance at high standards.

- The accuracy of the phenol test in the range of 1 to 10 ug/1 was determined with the result that the lower dectectable limit is 1 and the average deviation 0.5 ug/l. This determination is based on 70 single tests.
- After considerable investigations and changes in published procedures the Brucine method for Nitrate tests and a method for Total Phosphate tests was adopted.
- The Fluoride Electrode, available since 1966, was carefully checked and found excellent for river, tap, and well water, thus replacing the time consuming distillation method. Some industrial effluent samples obviously were causing difficulties. The survey in this respect is continuing.
- Studies on Chemical Oxygen Demand determinations were sulfur determinations of lichen samples concentration on the degree of oxidation. Results indicated that such influence is non-existent.

Chemical Oxygen Demand tests on various organic compounds of such nature were performed which are giving concern regarding the oxidation effectiveness. The oxidation percentage was determined. This survey will be continued.

- Investigations were initiated for scanning industrial waste effluent, and pond samples in the Ultra-Violet wavelength range. First results indicated that it is hardly possible to identify specific compounds, but by testing a sample from time to time the change of compound structure towards a final state of oxidation should become evident. This would help to evaluate specific wastes.
- The influence of various types of filter paper, filter aid, and activated charcoal for contributing and adsorbing various cations and ions to and from aqueous samples was investigated.
- A test procedure for arsenic was introduced and g. used.
- In view of the soap and detergent industry's replacement of Alkyl Benzene sulfonate (ABS) surfactant with the biodegradable linear Alkylate Sulfonate (LAS), a standard calibration solution was obtained from the Soap and Detergent Association, New York, N.Y., and the respective change in

analytical procedure was performed.

A Manual for training lab personnel was set up.

### 2. Non-Routine Analysis Branch

a. Work on inorganic compounds

In this respect the polarograph obtained in 1966 was used to full capacity.

Since polarographic analytical techniques depend on sample composition to a certain degree, general working procedures only were set up, leaving necessary changes to the discretion of the analyst.

The polarograph was used especially for analytical work pertaining to the Air Pollution Control Section. Samples of Dustfall and Suspended Particulate Matter were scanned for lead, copper, zinc, nickel, and cadmium. In this respect it became evident that the polarograph is not only very useful, but its performance proved excellent.

b. Work on organic compounds.

As a basic tool to separate specific organic compounds from a multi-compound mixture a high quality Gas Chromatograph was obtained in 1967. An Infra-Red Spectrophotometer for which application is made would be a basic tool for identifying separated organic compounds. Both instruments would enable the laboratory to determine the quantity and quality of specific pollutants in air and water.

This would just indicate the importance of this type of work for pollution control in future.

### **D** – Training Course

Mr. P. Fee, Chemist, participated in a two-week training course "Chemical Analyses for Water Quality" conducted by the U. S. Federal Water Pollution Control Administration at the Robert A. Taft Sanitary Engineering Center, Cincinnati, Ohio, U.S.A.

The "Head" of the laboratory took part in a short course "Nuclear Magnetic Resonance Spectroscopy" sponsored by the Edmonton section of the Chemical Institute of Canada with the co-operation of the University of Alberta.

### E - Staff

During the year, 1967, the staff increased by the addition of one industrial laboratory technician. The full staff is three chemists, including a senior chemist as "Head", four industrial laboratory technicians and one laboratory assistant.

### 5. PUBLIC HEALTH INSPECTION SECTION

### Mr. L. E. Stewart - Chief Public Health Inspector

In 1967 there were positions for 75 public health inspectors in the Province of Alberta. During the year several vacancies occurred. Most vacancies were filled in a reasonable length of time but as the year progressed it became noticeable that there was a shortage of qualified inspectors. The Division of Environmental Health Services was able to replace Mr. J. M. Wetherill who transferred to the Division of Industrial Health Services by employing Mr. R. Horky but was not able to the year's end, to obtain a

qualified person to fill a new position created during the year. It can be anticipated that the present shortage of qualified public health inspectors will continue until such time as the new training program becomes properly established.

Three candidates were successful in the examinations for the Certificate in Public Health Inspection (Canada) written in Edmonton in November, 1967. The Division of Environmental Health Services co-operated in the holding of these examinations. Of the three who were successful, one has returned to employment outside the Province, a second is employed in health administration, while the third is now employed in the position he covered as a student.

There were no compulsory pasteurization by-laws passed during the year. Forty-two cities, towns and villages now have such by-laws in effect. Milk pasteurizing plants which had been operating in Coronation, Hanna, Eckville and Sylvan Lake closed during the year. These communities are now supplied with pasteurized milk from other plants. This continues the trend of recent years towards fewer plants and wider use of improved transportation vehicles. The number of milk pasteurizing plants has decreased from 90 in 1957 to 58 at the end of 1967.

Local Boards of Health suspended or refused five restaurant permits during the year. None of the permits suspended or refused were appealed to the Provincial Board of Health. Permits were issued or reinstated as soon as necessary measures for the protection of public health were completed. Comparative figures in recent years are: 5 in 1966, 3 in 1965, 8 in 1964, 5 in 1963 and 8 in 1962.

Provincial Public Health Inspectors were active throughout the year in programs for the protection of public health. Their activities included a program of public health inspections in areas outside cities and Health Units and some assistance in Health Units in public health inspection programs. The Public Health Inspection Section continued the Radiation Hazards Protection Program until this responsibility was transferred to the Division of Industrial Health Services in April. Other activities included the licensing of cemeteries, the licensing of commercial pesticide applicators and some inspections at food processing plants. In addition the public health inspectors continued to co-operate with other sections of the Division in activities in the field of pollution control.

A total of 491 inspections were made during the year in the basic sanitation program. Nearly all of these inspections were carried out in areas outside cities and Health Units and were of direct assistance to the local municipal authorities. The staffing of Northern Alberta Health Services towards the end of the year has greatly reduced the need for this type of inspection by placing a further large area of the Province under direct health services. Some assistance was given to Health Units in public health inspection problems. It can be anticipated that the need for this type of service will continue. Between the first of January and the end of March 47 inspections were carried out in the Radiation Hazards Control Program.

The cemetery licensing program commenced in 1965 was continued throughout the year. In this the third year of operation it was possible to trace down all but a very few of

the cemeteries not licensed in previous years. It was also possible to proceed with the task of ensuring that the land descriptions, etc. as contained in the Division's records are correct and up-to-date. The present state of licensing program will permit a greater concentration on this matter in 1968. A total of 1,225 licenses were issued for the 1967/68 licensing year. The increase is mainly attributed to the contacting of cemeteries not previously licensed. Most cemetery licenses are issued without fee. Fees paid for licenses for profit-making cemeteries, for mausolea, for crematories and for columbaria during the year amounted to \$725.00. The reduction from the amount of \$770.00 received in 1966 may be accounted by the discontinuance of one cemetery under this class.

The administration of the regulations licensing commercial pesticide applicators was again the responsibility of the Public Health Inspection Section during 1967. As this program was first inaugurated in 1966 the first full year ended on March 31, 1967. a total of 154 licenses were issued during the first license year. From April 1, 1967, to December 31, 1967. A total of 202 licenses had been issued showing a considerable increase in this area. During the year it was possible to clarify many of the problems which had occurred during the first licensing year and this resulted in an increase in the number of licenses issued.

The public health inspectors were called on several times during the year to assist the Air Pollution Control Section and the Water Pollution Control Section in their activities. This co-operation has been extremely useful as in many instances the polluting factor may be a matter of direct interest to the public health inspector.

During the year some inspections were made at food processing plants. These plants frequently supply areas which include several Health Units and do not, therefore, appear to be the responsibility of any one Health Unit. It would appear that there is a considerable area here in which there is limited public health supervision. It is felt that the Public Health Inspection Section could provide a useful service in this matter. In preparation for a more active role in the inspection of food processing plants one of the public health inspectors was attached to the New York City Health Department for a period in the fall for orientation. The training he received should be of benefit in this very important activity.

Problems connected with the location of waste disposal grounds continued. In particular these problems became acute in the City of Calgary where there was strong public opposition to proposed locations. In order that the whole matter could be enquired into, the Minister of Health established a study committee. The Chief Public Health Inspector is Secretary of the "Solid Wastes Disposal Study Committee". It is anticipated this Committee will be making its report in 1968.

The Public Health Inspectors were engaged in a diversified program in the field of public health throughout

the year. The direct inspection program was supplemented with various related activities designed to provide improved public health inspection services in the Province.

### 6. PLUMBING INSPECTION SECTION

The Plumbing Inspection Section of the Division of Environmental Health Services during 1967 received the sum of \$13,672.15 in the form of plumbing permit fees. The number of permits issued during the year totalled 2,211. The number of plumbing fixtures installed throughout the Province was 189,734. The value of the plumbing installed is estimated to be approximately 50 million dolars.

The number of individual types of fixtures installed was as follows:

Water closets	49,047	Lavatory basins	48,494
	32,105	Sinks	35,821
Laundry tubs	2,251	Special fixtures	22,016

The number of privies eliminated as a result of plumbing being installed was 407.

During 1967 this Section employed two more plumbing inspectors, making a total of seven such inspectors to cover the Province. One of the new inspectors is stationed in Edmonton while the other is located in a new Calgary Office.

This Section became responsible for plumbing inspection in the Towns of Fort Macleod, Claresholm, Taber, Elk Point and Fox Creek, as well as the Villages of Airdrie and Waskatenau. This Division is now providing inspection for 151 urban municipalities.

The Provincial Plumbing Advisory Board held one meeting during 1967 and discussed the proposed use of plastic pipe and fittings in the plumbing field. The Canadian Society of Plastics Engineers, in co-operation with the Canadian Standards Association, developed standards for the manufacture of Polyvinyl-chloride and Acrylonitrile-Butadiene-Styrene pipe and fittings. As a result of these standards the manufacturers are now producing products of an acceptable quality for the drainage, waste and vent portion of a plumbing system.

This Section is experiencing some difficulties in providing an adequate inspection service for such remote areas as Rainbow Lake and Zama, however, it is felt that many of the problems will be overcome when an all-weather road is constructed into these developments.

A committee was formed during 1967 with representatives of the Mobile Home Industry to resolve questions relating to the installation of plumbing in mobile units. The recommendations of this Committee have been forwarded to a National Committee under the sponsorship of the Canadian Standards Association and are being used as the basis for proposed standards which will govern the industry and result in uniformity of plumbing installations in trailers and mobile homes across Canada.

# DIVISION OF INDUSTRIAL HEALTH SERVICES

H. Siemens, M.D., Dr. P.H., D.I.H., Director

This Division is entrusted with the surveillance of the factors in industry which may have a deleterious effect on the health of the worker. The effects of the work environment are determined by the measurements of certain parameters of health in the worker; or predicted on the basis of the concentration of noxious components in the work environment which are known to result in impaired function through excessive exposure. Thus loss of hearing acuity in noisy environments is measured by audiometry on the worker, and the presence of excessive noise levels is determined by measuring the loudness of the noise. Impaired lung function is determined by spirometry and chest X-rays; the evidence that harmful levels of noxious dusts are present in the environment is secured by means of determining the concentration of such dusts in the environment. Similar steps are taken with respect to metals, chemicals, gases and fumes which often are more immediate in their effects on the health of the worker.

During 1967, 1500 grain elevator operators were examined in such a manner. This was made possible by the active co-operation of the North-West Line Elevators Association, Alberta Division, and the member elevator companies. Assistance was also provided through a research grant from National Health and Welfare. Also included were 165 workers in flour mills, 225 in seed cleaning and treating plants, and 110 in feed mills of Alberta. The results are being evaluated and determinations of environmental factors made.

A similar investigation was made on 240 highways workers and 125 foundry workers. Lesser number were examined in gravel crushers, street sweepers, incinerator operators and others exposed to inorganic dusts of various kinds.

The results of all investigations are transmitted to management who usually take recommended steps to improve conditions or provide necessary protective devices. Local Health Agencies are taking an interest in these efforts and provide ever increasing assistance where they can, especially in audiometry.

It is not feasible to mention all the types of problems investigated by this Division. Some appreciation of their variety can be secured by examining the record of determinations made by the Industrial Hygiene section of this Division which are tabled below in Dr. Buchwald's report.

### INDUSTRIAL HYGIENE SECTION

# H. Buchwald, M.Sc., Ph.D., F.R.I.C., M.C.I.C. Chief Industrial Health Chemist

In August, 1967, Mr. K. R. Schrag, P.Eng., Industrial Hygienist, left on one-year's leave of absence to undertake graduate studies in Industrial Health at the School of Public Health, University of Pittsburgh.

Mr. L. K. Smith, M.Sc., Dip. Occup. Hyg. (London)

joined our staff as Industrial Hygienist in September, 1967. In May, Dr. Buchwald attended the joint annual conferences of the American Industrial Hygiene Association and the American Conference of Governmental Industrial Hygienists. Many useful contacts were made. At the end of 1967, the staff of the Industrial Hygiene Section, including one person on leave of absence, was comprised of a supervisor, two industrial hygienists, a chemist, two technicians and a laboratory assistant.

Liaison with the City of Edmonton Engineering Department continued with respect to the construction of a dust-free operating cab for mechanical street sweepers. An improved prototype dust filtering system was constructed and tested. It is now possible to provide a dust-free working environment for the drivers of mechanical street sweepers, and all users of such vehicles in the Province will be encouraged to have their new sweepers, and possibly some of the existing ones modified in this way. The problem of excessive dust concentrations in this environment was discussed by Dr. H. Buchwald and Mr. K. R. Schrag in their paper "Dust Exposure in Mechanical Street Sweepers", American Industrial Hygiene Association Journal 28, (1967) 485-7.

Gravel crushing is an occupation associated with two major occupational hazards. Measurements at several installations, permanent and portable, have shown that operators are exposed to excessive concentrations of silica-bearing dust as well as high noise levels. Our staff have been working together with the Workmen's Compensation Board in an attempt to find a satisfactory means of protection against these hazards. The most practical solution has been to provide an air-conditioned booth for the operator. Entry of dust into the booth is prevented by keeping it under slightly positive pressure with a supply of filtered air. A number of companies have used considerable ingeniuty in constructing such booths, and tests have shown that these are most efficient in protecting the occupants from both dust and noise.

Heavy equipment operators in the road construction industry are another working group exposed to excessive dust concentrations and high noise levels. Exposure to dust is intermittent and depends on weather conditions and the nature of the terrain being worked. Exposure to noise is more continuous but is dependent on the exhaust muffling provided for engines and on the provision of cabs for the operators. The continuing study on this industry has indicated that it would be extremely difficult to determine the actual exposure of any group of operators over an extended period of time. Measurements up to now have only been successful in showing that permissible limits are exceeded in numerous occasions. Provision of respiratory and ear protection for these operators appears to be necessary. A much more satisfactory solution to the problem would be the provision of dust-free air-conditioned cabs for the operators, which would also protect them from the excessive noise. In the meantime, monitoring of the

operators by lung function tests, chest X-ray photographs and hearing tests should pick out those who have been adversely affected.

Similar problems are being encountered with agricultural workers who are operating a variety of noisy and dusty machines. It is hoped that this occupational group escapes damage by the short duration of exposure. However, only tests on the exposed group will provide the necessary information.

Investigations were carried out into the exposure of thermal insulation workers to asbestos dust. These workers are highly unionized and the majority work on a contract basis at various locations throughout the Province. Measurements have shown that concentrations of airborne asbestos fibres exceed the recommended limits in a number of operations - particularly those in which asbestos sheets or mouldings are being drilled, broken or cut. In general, the results of our investigation into the working environment are comparable with those of a similar, but more extensive study recently carried out in the U.S.A. In most instances local exhaust ventilation was neglected and respiratory protection ignored. Education of these workers to the use of protective equipment, and assembling them for testing by our Chest Survey Unit is creating difficulties seldom encountered in other occupational groups.

Exposures to excessive concentrations of dust and fume have been measured in a variety of other workplaces ranging from metal foundries to municipal incinerators.

Education of management and employees to an awareness of potential occupational health hazards is a most important facet of our work. There is a steady demand for our staff to provide information and to give talks and lectures to interested groups. To meet a growing demand for more information about noise and its effects, three one-day symposia on Industrial Noise were held during 1967. These symposia, two in Edmonton and one in Calgary, were organized with the help of the Workmen's Compensation Board. The programme, which included talks on the nature, effects and suppression of noise, was directed at senior industrial management and persons responsible for health and safety. The total attendance at the three symposia was in excess of 250 persons.

An unusual occupational group exposed to excessive noise levels are instrumentalists in bands, which play the louder kind of modern music. Combinations of drums and amplified instruments can realize sound pressure levels in excess of 110 decibels. Although casual listeners are unlikely to suffer any permanent damage, the musicians may suffer permanent noise-induced hearing loss. Such hearing loss has already been reported in teenagers.

With the assistance of the Local Health Units, blood samples for carbon monoxide haemoglobin estimation were obtained from more than 390 garages and service station employees (mainly mechanics) throughout the Province. The majority of these samples were taken towards the end of the working day during sub-zero weather when ventilation is usually at a minimum. If any of the persons concerned were exposed to excessive concentrations of carbon monoxide these would be readily detected from the blood analyses. One of the most noteworthy observations

from the results obtained was the influence of cigarette smoking on the level of carbon monoxide to mask the amount of the gas which was absorbed from automotive exhaust gases. For a realistic interpretation of the results it became necessary to examine the carbon monoxide levels in a group of persons (70) not normally exposed to carbon monoxide during the course of their work. It was significant that not one person among the exposed group of 390 had more than 20% of his haemoglobin bound by carbon monoxide, and that only 24 persons had between 15 and 20% of their haemoglobin bound (21 of these persons smoked more than 10 cigarettes per day). From this study we were led to conclude that as a group, motor mechanics were exposed to only slightly higher carbon monoxide concentrations than the non-exposed group, amounting to between 20 and 50 parts per million. Exposures to high concentrations of carbon monoxide were either unlikely or only of short duration.

Following a preliminary investigation which showed that dental workers could be exposed to inorganic mercury compounds, a Federal Government Health Research Grant was obtained, to study further the source and extent of exposure. This grant will support the work of a research student for three months during the summer of 1968.

After reports of accidental poisonings by pentachlorophenol in another province, our staff examined the manufacture and large scale use of this compound as a wood preservative. Analyses of urine specimens from persons exposed and of the atmosphere in the workplaces has been carried out. No adverse reaction to pentachlorophenol has yet been reported in this Province.

The laboratory took part in an inter-laboratory trial of blood lead analyses organized by the American Industrial Hygiene Association. Some 70 laboratories in the U.S.A. and Canada participated in the trial. The results are not yet available at the time of writing.

A classical case of intoxication by mercury vapour was investigated. Mercury metal was being handled in a ½-ton van used as a mobile testing laboratory. The person affected worked inside the enclosed and poorly ventilated van body; mercury vapour was generated from the numerous droplets of mercury spilled inside the van. Some of the mercury was evidently volatilised by dropping on the interior heater, or from the heat of a lighted cigarette placed on the workbench. The symptoms of intoxication soon subsided after the person concerned was removed from exposure; even though the mercury was detectable in the urine for many months afterwards.

Our staff participated in a week-long survey of health and safety practices at the Northern and Southern Alberta Institutes of Technology. Miss I. Courtenay, Nurse Consultant and Mr. J. P. Windish, Industrial Hygienist, both of the Federal Division of Occupational Health, Ottawa, led the surveys.

INVESTIGATIONS CARRIED OUT AND MEETINGS ATTENDED

Plants and other locations visited to carry out tests
for atmospheric contaminants

61

Mose surveys

Meetin's and discussions where the technical knowledge
of the staff was required

51

Site visits and inspections at which tests were not required

62

Committee meetings attended

Talks and lectures given

18

TESTS CARRIED OUT AT THE SITE AND IN THE LABORATORY	
Air samples for gases, vapours and fumes (Inclueet: action monoxide carbon dioxide, cresols, hydrocarbon vapours, hydrogen chloride, hydrogen cyanide, hydrogen sulphide, lead fume, mercury vapour, nitrogen oxides, oxygen, ozone, perchioroethylene, pentachlorophenol and uranium)	93
Air samples for dust count	272
Settled dust samples	41
Blood specimens analysed	390
(Included: carboxyhaemoglobin 383	250
les 4	
Urine specimens analysed	<b>2</b> 60
(Included: lead and coproporphyrin 226	
copper 6	
pentachlorophenol 24 mercury 4	
(All urine spe_imens received are routinely tested for specific	
gravity, glucose, ketones, occult blood, protein and pH)	
Miscellaneous specimens	8
Total tests carried out and samples examined	1.064

### RADIATION HEALTH SECTION

### Mr. J. M. Wetherill, Radiation Health Officer

At the beginning of July 1967, the control of hazards from ionizing radiation was transferred to this Division from the Division of Environmental Health Services. This includes the responsibilities in connection with the local application and enforcement of the Atomic Energy Control Regulations.

Duties involve those of "Inspector Officer", as designated by the above mentioned regulations and include inspection and approval of devices incorporating radioactive sources and the investigation of accidents and losses involving such materials.

The position functions as liaison between local users of radioisotopes and the Atomic Energy Control Board (licensing authority) and the Radiation Protection Division (health advisors to the licensing authority), both of which are located in Ottawa.

There are approximately 110 licensed users of radioisotopes in the province where the substances are utilized in industry, research and medicine. This includes 11 new users in 1967.

A total of 93 field inspections were made during the second half of the year as part of this programme, of a total of 140 visits. The remainder included the investigation of accidents relating to radiation, attendance at meetings and the presentation of lectures on radiation hazards control. These latter were given to industrial safety meetings, Emergency Measures Organization trainees, classes at the Northern Alberta Institute of Technology and the national conference of the Canadian Society of Radiological Technicians.

At the end of 1965 the Minister of Health held a meeting to consider the possibility of setting up a programme to control radiation hazards associated with the use of X-ray equipment. This resulted in the formation of a provincial Radiological Health Advisory Committee in 1967. Membership of this committee includes the Director of the Division; Dr. H. E. Duggan, Director of the Radiology Department, Foothills Hospital, Calgary (also a member of the National X-ray Safety Committee); and Dr. S. R. Usiskin, Chief Medical Physicist, Edmonton Cancer Clinic.

Under the general guidance of this committee, and in accordance with the recommendations of the National X-ray Safety Committee, the Division has established a programme to check all types of X-ray equipment in the Province.

Registration of installations is in progress and a service to check and monitor equipment is being made available on request. It is estimated that there are some 1200 X-ray devices in use in the Province and it is hoped that all will eventually be checked. Surveying of installations has commenced and the defects noted so far have justified the establishment of the service.

# CIVIL SERVICE NURSING BRANCH

K. E. Jorgensen, R.N.

This Branch offers assistance to the Civil Servants, at and through their places of work. It is a service for the employee in phases of physical or mental ill-health.

Due to the extensive and prolonged renovation procedures in the Administration Building and the adjoining Natural Resources Building, the staff in the immediate area have been lessened by hundreds. Due to this fact our office calls have diminished approximately 16% this year in comparison to our 1966 records. Regardless of this, the demand for supplies became greater as "sick rooms" increased.

Three first-aid rooms were established in the Agriculture Building this year which accommodates the staff of the Deapartment of Mines and Minerals and the Department of Agriculture. The Department of Industries and Development moved to the Centennial Building which necessitated first-aid equipment and medical supplies.

The Museum and Archives Building, which was officially opened in November, has a small but well-equipped "emergency" room. The Department of the Provincial Secretary financed the cost of the wheel chair, stretcher and a few miscellaneous items. We supplied the initial drugs, dressings, basins, instruments (scissors etc.) and bed linen. Mr. Cain who is in charge, was a former instructor in the St. John Ambulance Association and also had training in the Army Medical Corps. Two members of the staff are trained St. John Ambulance men. This gives a continuous service for emergency cases.

During the first part of the year the Department of Labor requisitioned for a first-aid kit for their testing laboratory. This request was fulfilled.

As in previous years, the "problem drinker" gives great thought and concern to management. We have encountered a few of these cases this year. A recent Order-in-Council regarding this type of illness, has proven, we believe, to be a step in the right direction. Now when management discovers an employee as a "problem drinker" and the patient agrees to undergo treatment, his absence is accepted as "sick leave". If the patient is reluctant, it constitutes termination of his service. Previously these cases were a constant source of procrastination and broken promises. The ultimate results of the new "order" appear encouraging.

Many cases of the so-called 'flu have been more severe than usual and more patients have suffered relapses. Unlike other years, several cases of tracheitis have developed.

Our appreciation is expressed to Dr. J. D. Ross, Minister of Health, and his staff who so willingly assist us in our health and administration problems. We also extend our gratitude to the staff who regularly assist in the various "emergency rooms".

The following is a resume of the year's work.

Month	Office Calls	Home Calls	Compensation	Certificates
January	404	76	1	48
February	369	60	6	28
March	404	36	5	21
April	419	32	4	13
May	454	57		21
June	403	35	8 5 3	17
July	410	38	3	14
August	409	46	12	22
September	378	50	5	28
October	381	50	6	28
November	360	43	16	30
December	330	49	6	11
			_	
1967	4721	572	77	281
1966	5637	624	98	463

# **DIVISION OF ALCOHOLISM**

J. P. Matheson, B.A., B.S.W., C.A.S.W., Director

Division of Alcoholism activities expanded dramatically and took on new dimensions in 1967. Treatment techniques have been improved, refined and applied more efficiently to cope with an unprecedented demand for these services, but the main focus of the year's work has been on the teaching and training responsibilities of the Division staff and facilities.

An excellent start was made in the development of community alcoholism programs in smaller urban centres which do not have the services of Division clinics. Community Services staff has concentrated considerable effort in establishing these community programs through contacts with health units, welfare officers, clergymen and other community workers.

Training and orientation courses designed for those involved in a professional way with the problem of alcoholism, as well as community alcoholism workers, have been introduced and are achieving encouraging results.

A key facility for both treatment and education, "Henwood", the new residential rehabilitation unit northeast of Edmonton, was turned over to the Division of Alcoholism during the year and is gradually being phased into full operation. This new in-patient centre will provide facilities for special training courses for medical students, social workers, clergymen and others interested in localized alcoholism programs.

The Division of Alcoholism has been involved in the development of improved institutional alcoholism programs in the province, particularly at Alberta Hospital (Oliver) and Belmont Rehabilitation Centre. Arrangements for pre-release counselling by Division personnel at both institutions has improved the effectiveness of the "follow-through" program of social services to assist patients in achieving complete reintegration to a useful role in society.

Alberta universities in Edmonton and Calgary have offered non-credit courses in alcoholism through their extension departments which attracted almost 100 registrants during the year. Benefits from these courses, which drew on Division of Alcoholism staff for faculty, will be reflected in greater co-operation and understanding among agencies and individuals interested in the problem of alcoholism in Alberta's major centres as well as surrounding communities.

In the field of industrial programming, a new training course for supervisors has been perfected to facilitate the early and efficient functioning of company alcoholism policies. The pamphlet, "A Guide for Supervisors", was designed and produced as a training tool and reference for those taking the course.

An alcoholism policy for public service employees was instituted by the Alberta government during the year and the Division staff is prepared to begin a comprehensive training program for supervisors in 1968.

Increasing public pressure for information concerning the use and abuse of drugs, particularly those known as the "psychedelic drugs" such as marijuana and LSD, has been met to a limited extent by the Division of Alcoholism. A number of new films and filmstrips dealing with the subject have been purchased and a number of publications added to the shelves of our lending library. These materials have been used extensively in 1967 by schools, church groups, public health nurses, and representatives of the Food and Drug Directorate of the Department of National Health and Welfare as background information for lectures and discussions.

Several new pamphlets for addition to the Division's growing literature portfolio were under production at the end of the year. An improved program for the distribution of literature is channelling supplies of Division information materials into welfare offices, health units and hospitals on a regular basis.

A diligent search for new audio-visual material resulted in the purchase of about a dozen new films and filmstrips useful both in public information and in group therapy sessions for patients.

Eight issues of the Division's publication "Concept" were produced and distributed during 1967 to more than 7,500 Albertans in the helping professions. It has proved to be an effective information tool which has covered every aspect of activities in the field of alcoholism in the province.

Newspapers, radio and television stations have been generous in their support of the work of the Division of Alcoholism during 1967 with a number of excellent feature articles and programs.

The enthusiastic assistance and guidance of the Advisory Council to the Division of Alcoholism has been an important factor in the growth and expansion of activity and the new approach to the problem of alcoholism during 1967.

### **EDMONTON CENTRE**

With 825 new patients registered at the Edmonton Alcoholism Clinic, 1967 was the busiest year on record. This was an increase of 133% over the 1966 registration of 353 new patients. Edmonton magistrates court pilot project to deal with offences under the Alberta Liquor Control Act contributed greatly to this increased case load.

Pressures of the court project plus the training of new staff for Henwood Rehabilitation Unit created problems of both space and time for the clinic staff. Recreational therapy was introduced for the first time with the employment of a full-time therapist. This proved to be a very successful project which was continued for some months by the Henwood staff following the resignation of the therapist and pending the appointment of a replacement.

Space problems and a shortage in counselling staff resulted in greater emphasis on group work with patients with corresponding reduction in individual counselling. This

new approach has been an effective method of coping with the rising demand for services.

Property immediately south of the clinic building was purchased early in 1967 but renovations were delayed for some months and it was impossible to make use of the extra space.

The Community Services program has been expanded to several new areas during 1967 and staff has been involved in the continuing alcoholism courses offered by the University of Alberta. Training courses and general orientation of nursing students and nursing aides have been maintained.

Liaison with the schools and with public and separate school boards has been good. In June a crash program of alcoholism education for Grade 10 students at Jasper Place Composite High School was conducted on invitation from guidance teachers. As a result of this experience and a change in Division policy, a two-fold approach to meet the needs of teachers and schools was drafted and presented to both Edmonton school boards. The proposal offered: 1) audio-visual aids and literature for reference to be supplied to the boards' I.M.C. libraries; and, 2) assistance from Division staff as resource persons for school teaching staff or individual teachers but not on the basis of instructors in classrooms.

A two-day session with community development officers proved very fruitful as did several other similar seminars with social service agency staffs and Indian community health workers.

### **CALGARY CENTRE**

Increase in demand for services at the Calgary Alcoholism Clinic was not as dramatic as that in Edmonton but did rise 17% in 1967. Day centre activities were begun early in the year and recreational therapy was also provided for patients. Expansion of treatment services was made possible by the transfer of Community Services to a new location in the Sherman Oakes building nearby.

In addition to the usual orientation program for nursing students who visit the clinic each week a new program for graduate medical students specializing in a post graduate course in Family Medicine at the Calgary General hospital was instituted. Medical students from this course spend two days each month at the Calgary Clinic.

Police training has been a major activity of Community Services staff in Calgary with recruit training courses held regularly at Penhold for the R.C.M.P. Similar courses were held in Calgary for city police and the armed forces Provost Corps, as well as for police and probation officers in Lethbridge and Medicine Hat. At Drumheller a training course was initiated for staff at the new penitentiary.

In co-operation with the University of Calgary two alcoholism institutes or training courses were offered at the university during the year. A seminar for personnel managers was also held in October with good representation from many of the larger industrial firms.

### RED DEER CENTRE

Highlight of the year's activities at the Red Deer clinic was the promotion and joint sponsorship of a seminar for clergymen at Drumheller in December. Aimed specifically at clergymen serving smaller urban and rural centres in Central Alberta, the two-day alcoholism seminar attracted an excellent registration and sparked considerably increased interest and understanding of alcoholism among clergymen of all denominations.

The addition of a new counsellor to treatment staff freed the supervisor for more activity in Community Services programs and co-operation in developing industrial policies for industrial plants in the Stettler, Rimbey and Rocky Mountain House areas.

Division of Alcoholism staff enjoys an excellent working rapport with family court and other social service agencies in Red Deer. Relations with the press, radio and television has been maintained on a good level of understanding.

### RESEARCH SERVICES

Research Services has become an effective source of direction and program evaluation for the Division of Alcoholism.

The past year has seen the development of a vigorous program of practical, applied research. During 1967 efforts have been concentrated on a thorough evaluation of the first year of operation of the Magistrate's Court for the Alcoholic Offender in Edmonton, and in collaboration with Community Services staff, on training techniques for the Division's supervisory training program.

A study of alcoholic patients in Calgary hospitals was completed and another research enterprise nearing completion is a statistical study of the prevalence of alcoholism in Alberta. Revised techniques for patient assessment and follow-up, with particular emphasis on occupational assessment, are in the process of development. Evaluational instruments for use in orientation and training programs have been devised.

Extramural research has likewise seen extensive development. Experimental studies comparing the sensory modalities of alcoholics and non-alcoholics are being conducted by Dr. T. M. Nelson and Dr. P. Swartz, part-time research consultants from the University of Alberta. Dr. J. A. L. Gilbert has furthered his comparative studies in alcohol metabolism with different ethnic groups.

A new dimension to the research program was added with the acquisition of a trained research librarian. The research library is undergoing major re-organization and will increasingly become an invaluable resource for staff, professionals in the community, students, and others.

Following are comparative statistics on case loads, interviews and group therapy activities at the three clinics operated by the Division of Alcoholism:

NEW PATIENTS - 1967	MALE	FEMALE	TOTAL
All centres combined	1,029	113	1,142
Edmonton	754	71	825
Calgary	240	37	277
Red Deer	35	5	40

	INDIVIDUAL			JOINT			FAMILY		
COUNSELLING INTERVIEWS - 1967	Patients	Relatives & Others	Total	Patients	Relatives & Others	Total	Patients	Relatives & Others	Total
All Centres combined	7,458	2,078	9,536	57	8	65	319	3	322
Edmonton	3,864	1,199	5,063	20	-	20	861	-	168
Calgary	3,217	703	3,920	14	4	18	147	2	149
Red Deer	377	176	553	23	4	27	4	1	5

	DOCTOR/PATIENT			NURSE/PATIENT		
MEDICAL INTERVIEWS - 1967	Patients	Relatives & Others	Total	Patients	Relatives & Other	Total
All centres combined	397	-	397	6,701	-	6,701
Edmonton	133	-	133	4,142	-	4,142
Calgary	264	-	264	2,559	-	2,559

	INDI.	SESSIONS		
GROUP THERAPY - 1967	Patients	Relatives & Others	Total	Total No.
All centres combined	2, 198	780	2,978	873
Edmonton	1,682	461	2,143	621
Calgary	496	312	808	239
Red Deer	20	7	27	13

# DIVISION OF ARTHRITIS SERVICES

R. K. Thomson, B.Sc., M.D., F.R.C.P. (C), F.A.C.P., Director

The Division of Arthritis continues to accept patients under the age of 25 years, who are suffering from or suspected to be suffering from Rheumatoid Arthritis, upon referral by the patient's personal physician. Clinics are maintained at 511 Medical Arts Building, Edmonton, and at 2104-2nd Street S.W., Calgary, for the purpose of investigation, diagnosis and recommendations regarding treatment. The patient is returned as quickly as possible to his physician with a detailed report covering the clinic visit. Hospitalization, medical care, corrective surgery, laboratory and X-ray examinations, physiotherapy and appliances, and the drugs used in the treatment of Rheumatoid Arthritis, are all provided without charge to the patient.

There has been an increase in the number of patients returning for repeat examinations and advice. In September when the Edmonton clinic was moved to its present location, a letter was sent to all doctors who had referred patients to us. Letters were also sent to all Juvenile Rheumatoid Arthritis patients on the clinic register, informing them of the change of address and asking to hear from either the patient or his doctor. The response was dramatic. We received replies not only from our active cases but from a large number of cases we had not seen for some time. It is an interesting fact that since the month of our move, the activity in the clinic has quadrupled.

There is no essential change in the number of new cases seen. It is possible that a number of new cases of Rheumatoid Arthritis may be seen by the consulting pediatricians in the province, but it is our impression that the majority are referred for consideration by the clinic. The range of age at onset remains the same, but we are impressed by the number of very young children who show up with Rheumatoid Arthritis.

The greatest value of the clinics has been in the education of patients through consultation with their doctors regarding the best method of treating and living with Rheumatoid Arthritis. It is recognized that, where an early diagnosis can be made, some of the deformities of this disease may be prevented or limited. And it is equally true that when some of the financial burden, such as might be caused by expensive drugs, is lifted, earlier help may be sought by the patient.

### STATISTICAL COMPILATION-1967

	111011 100		
ACTIVE CASES: Admissions Readmissions after 5-year remission Repeat examinations made Rheumatoid Arthritis cases—NEW Total Rheumatoid Arthritis cases under treatment	13 133* 14	4 1 20 4	Tota 20 14 153 18
*In addition to this figure, another 25 cases, although not seen in 1967, have corresponded with the clinic regarding care.	140	54	200
INACTIVE CASES:			
Rheumatoid Arthritis cases formerly under			
treatment in the clinics, now ineligible			
(over 25 years of age)  Cases referred as suspect Rheumatoid	261	119	380*
Arthritis, diagnosed as Rheumatic Fever Cases referred as suspect Rheumatoid	_	8	16
Arthritis, diagnosed as "other" illness *Although ineligible, many of these still look to the clinic for supportive interest and advice.	14	13	27
TREATMENTS—January 1st to December	2144 1007		
Hospital Dave		305	7.000
Cliffic and Office Visits	176	25	1620 201
Other:—including surgical injections and	398		398
special procedures	128	40	168
TOTAL TREATMENTS	2017	370	2387
	2011	310	2081

# ALBERTA HEALTH PLAN DIVISION

J. A. D. Paul, M.D., C.M., Director

By authority of the Alberta Health Plan Act assented to April 11th, 1967, the Alberta Health Plan commenced July 1st, 1967.

Section 3 of the Act indicates as follows:

"The purposes of the Alberta Health Plan are to afford to all residents of Alberta, regardless of income level, the opportunity to obtain for themselves and their dependants basic health services and optional health services under a voluntary plan to provide prepaid or insurance coverage for those services and to provide financial assistance to residents in low income groups, where required and requested, by way of subsidies paid by public moneys of the Province."

Basic Health Services were defined as:

- (i) medical services provided by a physician,
- (ii) oral surgery provided by a dental surgeon,
- (iii) services provided by an optometrist in respect of the refraction of the eyes for the fitting of glasses,
- (iv) services and appliances provided by a podiatrist,
- (v) services provided by an osteopathic practitioner, subject to the limitations and exclusions prescribed in the regulations. This established a minimum level of health insurance coverage to be offered by the Government agency and approved carriers throughout the Province.

Optional Health Services offered under a standard contract by the Alberta Health Plan and which can be purchased only as an addition to Basic Health Services, are divided into three categories:

- A. Hospital & Ambulance Services
- B. Drugs & Prosthetic Appliances
- C. Chiropractic & Naturopathy

Subsidies are available at the following taxable income levels:

### Subsidy Level 1

No taxable income -

Applicable to Single or Family Contract.

### Subsidy Level 2

Taxable income not exceeding \$ 500.00 Applicable to Single Contract only.

Taxable income not exceeding \$1000.00 Applicable to Family Contract only.

Social Service Recipients as authorized by the Department of Public Welfare are provided with coverage for Basic Health Services and certain Optional Health Services free of charge.

Persons who do not qualify for subsidy are required

to pay the regular subscription rates.

For the period July 1st to December 31st, 1967, an amount of \$10,847,640.00 was collected for premiums. Of this amount, \$3,026,492.00 was paid by subscribers and \$7,821,148.00 paid by the Government in the form of subsidies to Social Service Recipients and low income groups as noted above. The amount paid for claims for all services during the period was \$12,097,760.00. The average number of contracts during the period was 150,277 covering 359,500 lives.

# DIVISION OF TUBERCULOSIS CONTROL

H. H. Stephens, M.D., Director

The number of new active cases of tuberculosis discovered in this province during each of the past five years would suggest that we are on a plateau with slight upward and downward fluctuations. 1967 was a year showing an upward swing and these changes are noted in the following tables:

Total newly discovered cases 854 Of the above: Active 343 Inactive 511 The active cases are noted in the follow	1964	1965	1966	1967
	763	713	665	745
	317	347	310	336
	446	366	355	409
1963  1. Registered Indians	1964	1965	1966	1967
	45	66	47	75
	68	56	70	30
	204	225	193	231
PER 100,000 POPULATION  New active case rate—Alberta  New active case rate—Registered	1960	1965	1966	1967
	. 39.4	<b>2</b> 4.6	20.7	22.4
Indians New active case rate—Metis		287 224	188 280	256 120

The four areas in the province having a new active case rate higher than the provincial average in 1966 were given special attention in 1967. The Mobile X-ray Unit screened in each area, and in each instance fewer cases were discovered than in the previous year.

In 1967 there are nine such areas with a new active case rate higher than the 1967 provincial rate of 22.4 per 100,000.

It would appear in many instances that a small number of open infectious persons are responsible for spreading tuberculosis to a few relatives and associates over a period of some weeks or months before being detected. Public education is necessary to encourage awareness of possible tuberculosis, which can be detected early by tuberculin testing and investigation of reactors. This testing is also a simple and inexpensive method of early case detection in hospitals and medical offices. Physicians and hospital administrators are being asked to take a more vigorous approach, not only to rule out the possibility of active tuberculosis, but as a means to protect hospital personnel from unnecessary exposure to this disease.

### Construction

There was no new construction in 1967 at either the Baker Memorial Sanatorium or the Aberhart Memorial Sanatorium.

There were renovations and adjustments made at Baker Memorial Sanatorium to adapt the facilities of two buildings in order to accommodate in them all cases of tuberculosis under treatment. The total bed complement being thus reduced to 84.

Two of the buildings on the south side have been vacated and will be the first to be demolished when new construction is initiated.

The series of three north buildings has been assigned to the Department of Mental Health. Two sections each accommodate 60 cot cases, mentally retarded and severely handicapped children. The centre section is adapted to care

for physically handicapped wheel chair cases who are mentally retarded, and has 32 beds.

The Aberhart Memorial Sanatorium, since opening in 1952 with 295 beds, has recovered a sun room for dining and play which was used as a ward. The elementary school room has been placed in a medium sized ward, while the teacher of high school and commercial subjects has a smaller one. The Physiotherapy Department and Occupational Therapy Department are active with patients being more ambulant, and larger wards were needed to provide facilities to meet these needs. The present bed complement is 267.

### Diagnostic Services

The family doctor in 1967 referred 41% of all new active cases to our attention.

The medical and nursing staff of Health Units and Boards of Health have given extra effort and support in the follow-up of ex-sanatorium patients, known inactive cases, contacts and suspects from previous surveys or clinics. They also screen school children and personnel by tuberculin testing and arranging chest X-rays of reactors. Approximately 102,000 children were tested, by interval grades a few years apart, and 14 new cases were discovered, 4 being active.

The out-patient clinic at each Sanatorium, as well as 14 other clinics located in key centres, provided service to over 22,000 persons, either examined, X-rayed or both.

Mass X-ray Surveys using two Mobile X-ray Units, purchased by the Alberta Tuberculosis Association and operated by the Department of Health, Tuberculosis Division, as well as the Alberta Tuberculosis Association Miniature X-ray Units in City Halls in the major cities, or in Health Unit Offices in smaller cities and X-ray units provided by the Attorney General's Department in Correctional Institutions, screened over 100,000 persons. There were 26 new active or probably active cases of tuberculosis discovered as well as 22 cases of suspect new growth.

All clinics and surveys in the province gave service to 286,951 persons in 1967.

### **Treatment Services**

The number of patients treated during 1967 was 808 in the two provincial Sanatoria compared with 810 in 1966.

Since February 1967 all new active cases of tuberculosis among Registered Indians in the province have been treated in the provincial Sanatoria. The Baker Memorial Sanatorium had those resident in the south half of the province admitted there during the past few years.

The average stay in hospital is unchanged from 1966 being about 5.6 months.

There were 301 patients discharged to continue therapy at home under out-patient clinic supervision to complete in most cases a total of 18-24 months treatment.

The need for major surgical intervention has shown some decline.

### Prevention

B.C.G. vaccination is offered to 14-year-old Metis children who are non-reactors to tuberculin in the schools within Northern Health Unit areas where this higher than average risk group reside.

The Medical Services, Department of National Health and Welfare offers B.C.G. vaccination to all non-reactors to tuberculin under age 25 among the Registered Indians in the province.

A prophylactic chemotherapy program is being developed for known conventors to tuberculin, reactors among school children, and grossly exposed adults, plus other selected categories, whose reactions are over 10 mm. in diameter to the standard 5 T.U. test dose of tuberculin, using the Mantoux method.

### Education and Rehabilitation .

Qualified teachers continue the regular academic training of children Grades I to IX, and correspondence school branch courses are obtained for senior grades. The latter are supervised by a teacher provided by the Alberta Tuberculosis Association at both provincial Sanatoria. A part-time teacher fills the requirements at the Baker Memorial Sanatorium up to Grade IX.

The Alberta Tuberculosis Association also provides a rehabilitation officer at each Sanatorium, and commercial subjects are taught to over school age persons interested in taking special subjects.

Occupational therapy augments both the medical treatment and academic program in hospital life, and is more active with patients being more ambulant while undergoing hospital treatment.

The physiotherapy that patients receive pre and post-operatively, assists in shortening convalescence for surgical cases, while many medical conditions receive necessary attention, especially in the respiratory field.

### Nursing and Medical Program

A two-week nursing affiliation program has continued a course being given once every four weeks with the University Hospital Training School, Edmonton.

The fourth year medical students have a two-hour clinical session at the Aberhart Sanatorium each week throughout the academic year.

A special three-day orientation and refresher course for Public Health Nurses combined with the Affiliate Nurses program has been given throughout the year. This has been of value in co-ordinating hospital therapy with earlier out-patient care and supervision, as well as clarifying problems in the follow-up program. Nurses attending have had expenses defrayed by the Alberta Tuberculosis Associa-

tion, and this assistance has been much appreciated.

### Acknowledgements

I wish to thank the Minister, the Honorable Dr. J. Donovan Ross, and the Deputy Minister, Dr. P. B. Rose, for their interest and support concerning the work of this Division

The X-ray survey of Registered Indians and any resident provincial cases living adjacent to Reserves in the province has been carried out by the staff of Medical Services, Department of National Health and Welfare, and their efforts and assistance is gratefully acknowledged.

The Alberta Tuberculosis Association whose interest continues in early case detection, public and professional education and rehabilitation in the Sanatoria, has contributed a great deal to the Division Program in these areas.

Kinsmen Nurses in the major cities have assisted materially in our follow-up program.

The organizers of Mobile X-ray Surveys, have worked hard this year to improve attendance at clinics. The Stationary Miniature X-ray Unit staffs have co-operated in supplying necessary information for our records.

The staff in the Alberta Tuberculosis Association office have kept essential information, pamphlets, films for educational purposes, available to this Division as required. To all staff of the Association, Mr. McKenzie, his Board of Directors, and members of the Medical Advisory Board I wish to express my appreciation for the attention and assistance given in the work of this Division.

To the several organizations, church groups, service clubs, volunteer helpers throughout the province, and many individuals who have given freely of their time to assist patients or other phases of activity of this Division, I wish to express our appreciation for this generous help.

The patients at each Sanatoria are most grateful to the clergy who attend to their spiritual needs during their stay in hospital, and staff are appreciative of this service.

The control centre for tuberculosis is the Central Registry, and to those in this Department and at the Data Centre who have co-ordinated and worked together in this program, I wish to express my appreciation for their efforts.

In each Sanatorium the work to provide adequate patient care goes on in many departments. To Dr. Ryder and his staff, Baker Memorial Sanatorium, Calgary, and to Department Heads and personnel in each department at the Aberhart Memorial Sanatorium I wish to acknowledge their efforts and attention in providing this service throughout the year.

A Statistical Summary follows, outlining the work carried out by the Division.

### DIAGNOSTIC CLINICS

					New Ca	ses of 1	ub.		
		No. Regula		Pul.	No	n-pul.	1	Number of	ons
1.	Stationary Clinics	Session	is Act.	Inact.	Act.	Inact.	New	Rev.	Total
	Aberhart Memorial Sanatorium Baker Memorial Sanatorium	145 96	45 26	80 76	<b>2</b> 3	7 3	3.049 644	5,109 2,186	8,158 2,830
	Athabasca	2						61	61
	Bonnyville	2		_	_	_		32	32
	Camrose	2	_		_		_	36	36
	Drumheller	3					7	61	68
	Grande Prairie	2				1	_	34	34
	High Prairie	2	-	_				30	30
	Lac La Biche	2		_	-			51	51
	Lethbridge	4	_	1	-		18	86	104
	Medicine Hat	1	_		_	_	1	8	9
	Peace River	2	_		_			38	38
	Red Deer	1	_	_			12	13	25
	St. Paul	2	_	_		_	3	30	33
	Slave Lake	1	_		_		5	21	26
	Vegreville	2	-	1	-		1	34	35
	TOTAL	269	71	158	5	11	3,740	7,830	11,570
N/	Miscellaneous Clinics	_	49	150	2	3	-	_	11,087
	GRAND TOTAL	269	120	308	7	14	3.740	7,830	22,657
2.	Number of Injections, Out-patients								
			Memorial torium			rt Memor atorium	rial	1	Fotal
	Streptomycin	7	0		1.	222			1,292

<sup>•</sup> Films sent in from various points and authorized by the Tuberculosis Division.

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fealth Unit, City or		No. Tested		No.	. Reactors	S	Total	Number	New Case Tub.	ases.
Municipal Nursing District	School	Staff	Contacts	School	Staff	Contacts	Reactors		Act.	Inact.
Alberta East Central H. U.	3,706	423	1		75	ı	139	187	1	1
Athabasca H. U. Ranff National Dawk H II	2,266	135	74	378 (318)	26 (4)	14	418 (322)	538	1	1
Barons-Eureka H. U.	1,091	418	111	1 4	20	- 2	26	25	1 1	1 1
Big Country H. U.		123	12	8	2	3	11	11	1	1
City of Calgary	14,129	2,386	592	254 (60)	163	131	548 (60)	1.756	1	1
Chief Mountain H. U.		165		15	28		_	28	1	ı
Chinook H. U.	1,347	75	4,	18	17		30	30	1	ı
Drumheller H. U.	28 247	156	6 015	251	14	1 486	31	25	1 0	10
	,	1,00	,	101	0	0		6,040	7	<u> </u>
Edson H. U.	1,402	223	61	31	44	1.7	95	06	_	1
Foothills H. U.		219	26	15	35	9	56	47	1	1
Fort Assimisoine District Nurse		6	77	15	ı	7 -	17	31	1	ı
Fort McMurray District Nurse	1 0 1	2,6	ţi i	34	1 00	- I	42	٠. ٧	1	ı
מייינייניינייניינייניינייניינייניינייניי	H )	)	l	٠,	)	1	1	H	ı	ı
Grande Prairie H. U.	3,633	527	84	92	44	11	131	186	1	1
Jasper National Park H. U.	203	14	ഗ	2	1 -	ı	2	2	ı	1
Leduc-Strathcona H. U.	3,632	265	51	32	36	ĭ	69	115	ı	1
Lethbridge H.U.	2,353	342	112	28	21	23	72	72	ι	1
LaCrete District Nurse	152	23	ı	ı	3	ı	8	2	1	ı
Medicine Hat H II	2, 712.	099	7,	32	3.0	ıſ	47	73		
Minhum Vermilion H II	2, 907	442	291	107	00	ω α	225	142	i	ı
Mount View H. U.	1,957	208	26	46	0 -	230	70	757	ı	1
North Eastern Alberta H. U.	5,724	640	250	204 (40)	25 (3)	64	278 (43)	243		۱ ۳
Peace River H. U.	2,384	132	98	95	20	6	121	80	ı	) 1
Red Deer H. U.	200	η C	305	176/17/	60	10/2/1	_	202	-	
Stony Plain-Lac Ste. Anne H. U.	612		7 7	- 4	` <	2 4	(10) (7)	0,00	<b>-</b>	ı
Sturgeon H. U.	4 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	628	146	Σ α	47	12 (1)	_	901	1	ı
Vegreville H. U.	2,775	92	200	42.	]		101	170		
County of Warner H. U.	736	26	11	9	9	1 1	12	10		٠ ١
Wetoka H. U.	3.504	410	169	47	15(1)	14 (2)	76 ( 3)	74		_
High Level District Nurse	929	22	1	86	6	-	107	51	i	۱ ۱
TOTAL	101,688	14,450	8,662 3	, 276 (435)	1,150(8)	937 (37) 5	5, 363 (480)	6,848	4	10
Figure in brackets indicates number	9-0	reactors previ	vionsly given	B C C						

Figure in brackets indicates number of reactors previously given B. C. G.

3.

# MASS X-RAY SURVEYS Nuclear Surveys at 121 points in 8 Health Units, 3 Municipal Nursing Districts. Calgary and Edmonton City Hall, Calgary City Hall, Edmonton City Hall, Edmonton City Hall, Lethbridge Health Unit Office, Medicine Hat Health Unit Office, Red Deer Municipal Hospital, Athabasca Correctional Institutions— Calgary Fort Saskatchewan Lethbridge X-ray Unit #6, North Northern Alberta Institute of Technology: Edmonton Portable X-ray (Private) Number X-rayed $11,096 \\ 9.378$ 65 100.542 GRAND TOTAL ... SUMMARY MASS X-RAY SURVEYS 00,542 21 ( 15 previously recorded) 1,321 (1,192 previously recorded) ( 200 previously recorded) 310 The other 239 have either moved from Alberta, cannot be located or are still on our Follow-up Lists. "The other 90 cases requiring further examination were x-rayed at the Correctional Institutions and as the maj ority of these are transient and therefore most difficult to locate they are not included in this table. SUMMARY CLINICS AND SURVEYS Number Checked Stationary Clinics 11,570 Miscellaneous Clinics 11,570 Mass Surveys 100,542 Other Surveys (Tuberculin Testing Only) 129,331 Department of National Health and Welfare (Registered Indians, Whites and Metis) 18,892 Hospital Admission Program 8,692 Mental Hospital 6,747 Stationary Clinics TOTAL.

Of the above, only those referred to the Sanatorium for interpretation are included in Table 4.

### 5. SOURCE OF DISCOVERY OF NEW CASES OF TUBERCULOSIS

	1966	%	1967	%	% (Active)
Clinics	422(115)	63.4	449(127)	60.3	37.7
Referred for admission:			( /		
(a) Family Doctors	129(122)	19.3	105(98)	14.1	29.2
(b) District Nurses		_	1(1)	.1	.3
(c) Contact Reactors	_		3(3)	.4	.9
#6 X-ray Unit		.5	—( —)		
Referred by Department of National Health	1				
and Welfare:					
(a) D.V.A. or National Defence	5(1)	.8	3( —)	.4	
(b) Other (including Registered					
Indians)	57(49)	8.6	82(69)	11	20.5
Provincial and Hospital Laboratories	7(6)	1.1	9(9)	1.2	2.7
Hospital Admission Program		1.2	9(1)	1.2	.3
Mental Hospital	12(5)	1.8	35(9)	4.7	2.7
Information from Private Physician	<del>-</del> ( <del>-</del> )		24(8)	3.2	2.4
Miscellaneous	22(12)	3.3	25(11)	3.4	3.3
momer					
TOTAL	665 (310)		745 (336)		

Figure in brackets indicates number of active cases included in preceding figure.

The following table sets forth the sources of discovery giving credit to the programs which actually instigated the investigation for tuberculosis. For instance, cases x-rayed on Mass Surveys, whose films show probable tuberculosis, are referred to the Tuberculosis Clinic or for admission to confirm the diagnosis. "Clinic" is not listed as a source in this table and the 449 cases credited to that source in the preceding table are distributed among the various sources listed below.

	1966	%	1967	%	% (Active)
Family Doctor Mobile Unit	254(172) 89( 11)	38.2 13.4	221 (140) 83 (15)	29.7 11.1	41.7 4.5
#6 X-ray Unit	4( —)	.6	—( —)		_
Contacts	48(33)	7.2	52(45)	7	13.4
Department of National Health					
and Welfare: (a) D.V.A. or National Defence	5(1)	7	4( -)	.5	
(b) Indian Health Services		8.6	85( 70)	11.4	20.8
(c) Immigrants	64(4)	9.6	82(5)	11	1.5
Previously diagnosed other Provinces					2.10
or Countries	58(7)	8.7	75(11)	10.1	3.3
Hospital Admission Program	12( —)	1.8	13(1)	1.7	.3
School Surveys	12(6)	1.8	14(5)	1.9	1.5
City Hall X-ray Units	22( 9)	3.3	23(8)	3.1	2.4
Food Handlers	—( —) 8( 3)	1.0	4( 1) 8( 4)	.5	.3 1.2
Provincial and Hospital Laboratories	7( 6)	1.2	9(9)	1.1	2.7
Miscellaneous Surveys	1( —)	.2	1( —)	.1	27.1
Mental Hospitals		2.0	36(10)	4.8	2.9
Miscellaneous Sources	11(3)	1.6	11(4)	1.5	1.2
Information from Private Physicians	—( —)	_	24(8)	3.2	2.4
mom	205 (040)		=45 (000)		
TOTAL	665 (310)		745 (336)		

Figure in brackets indicates number of active cases included in preceding number.

### CLASSIFICATION OF NEW CASES OF ACTIVE AND INACTIVE TUBERCULOSIS

	Active	Inactive	Total
Minimal	55	312	367
Mcderately Advanced	74	60	134
Far Advanced	39	3	42
Primary	74		74
Tuberculosis Pleurisy with Effusion and evidence			
of previous Pleurisy	23	10	33
Non-respiratory Tuberculosis	67	24	91
Miliary	4	-	4
TOTAL	336	409	745
	THE REAL PROPERTY.	-	Morrow

7. NEWLY DISCOVERED AND REACTIVATED CASES ACCORDING TO RESIDENCE (PUBLIC HEALTH SUPERVISION)

Health Unit	Active	%				*Rate	New	%	*Rate	vated	%
			*Rate	Inactive	%			, -		74.000	
Alberta East Central	. 8	2.4	16.0	6	1.5	12.0	14	1.9	28	1	2.0
Athabasca	. 12	3.6	55.0	19	4.7	87.1	31	4.2	142.1	3	6.2
Banff National Park		_		1	.3	28.0	1	.1	28		
Barons-Eureka	. 2	.6	7.6	4	1.0	15.2	6	.8	22.8	1	2.0
Big Country		.6	14.2	2	.5	14.3	4	.5	28.5		
Chief Mountain				_		_	_	_			_
Chinook	_	_	_	3	.7	14.0	3	.4	14	_	_
Drumheller	. 4	1.2	14.6	4	1.0	14.7	8	1.1	29.3		_
Edson	. 2	.6	8.7	13	3.2	56.8	15	2.0	65.5	_	
Foothills		.6	9.8	_			2	.3	9.8	_	
Grande Prairie		2.0	19.1	16	3.9	43.4	23	3.1	62.5	_	_
Jasper National Park				_							_
Leduc-Strathcona		2.7	25.1	6	1.5	16.7	15	2.0	41.8		
Lethbridge		1.2	11.1	5	1.2	13.5	9	1.2	24.6	1	2.0
Medicine Hat		.9	6.1	3	.7	6.1	6	.8	12.2		
Minburn-Vermilion		2.1	24.6	10	2.4	35.6	17	2.4	60.2	_	_
Mount View		.9	10.1	4	1.0	13.5	7	.9	23.6	1	2.0
North Eastern Alberta		4.5	42.2	30	7.3	84.3	45	6.0	126.5	2	4.1
Peace River		2.7	24.6	14	3.4	38.2	23	3.1	62.8	1	2.0
Red Deer		3.0	14.6	6	1.5	8.8	16	2.2	23.4	1	2.0
Stony Plain-Lac Ste. Anne		17	25.1	5	1.2	20.6	11	1.5	45.7		
Sturgeon		1.6	9.6	12	2.9	22.9	17	2.4	32.5		_
Vegreville		3.0	34.9	9	2.2	31.4	19	2.6	66.3	1	2.0
County of Warner		0.0	01.0	_	2.2	01.1			-	_	
Wetoka		2.0	23.8	6	1.5	20.4	13	1.8	44.2		
City of Calgary		11.8	11.9	90	22.0	26.8	130	17.4	38.7	7	14.4
		26.8	23.6	93	22.7	24.4	183	24.4	48	22	44.9
City of Edmonton	. 50	20.0	20.0	50	22.1	24.4	100	24.4	40	22	72.0
Miscellaneous	. 15	4.5		37	9.0		52	6.9		4	2.0
(Areas not included in above listing)		19.0	256	11	2.7	44.0	75	10.0	300	7	14.4
Registered Indians	. 04	19.0	256	11	2.1	44.0	75	10.0	300		14.4
TOTAL FOR PROVINCE	. 336	100	22.4	409	100	27.3	745	100	49.8	49	100

<sup>\*</sup>Rate per 100,000 of Population

Number of cases reactivated (includes 7 Registered India Number of non-residents diagnosed tuberculosis (include Number of Registered Indians diagnosed tuberculosis Number of Unregistered Indians diagnosed tuberculosis Number of known contacts of newly discovered active a Number known to be checked Number new positive reactors under age 3 years Number with active or reactivated disease on out-patier	and reactivated cases	3,59 2,58	
OLD TUBERCULIN DISTR			
	BMS	A.M.S.	Total
Dilution #2		195	283
Dilution #3		899	1,197
Dilution #4		3	53
Purified Protein Derivative	. 318	1,238	1,556
TOTAL		2,335	3.089
TOTAL	. 104	2,000	3,003
B.C.G. VACCIN  1. Nurses (a) Graduates (b) Students (c) Other Nursing Personnel  2. All other Hospital Personnel 3. Medical Students 4. Indians and Eskimos: (a) Newborn (b) Adults and Children  5. All Other Persons: (a) Newborn, contacts (b) Adults and Children, contacts (c) Newborn, not contacts (d) Adults and Children, not contacts (d) Adults and Children, not contacts			580 118 62 0 0
TOTAL			1,897
			-

8. INSTITUTIONAL R					
Number of meliants and as to the Town of Town		BMS	AMS	CCIH	AH
Number of patients under treatment January 1, 1967		53 161	152 427	59 33	121 39
Number transferred in during 1967		1	14	_	5
Number treated during 1967		215	593	92	165
		_		-	
Number discharged and died during 1967  Number transferred out during 1967		165	425 4	72 11	68 9
			_		
Number transferred out, discharged or died during 1967		165	429	83	77
Number under treatment December 31, 1967		50	164	9	88
		T.B. D	ivision	P	rovince
Number of patients under treatment January 1, 1967	***************************************	20 60			385 660
Number of admissions during 1967  Number of patients treated during 1967		80		1	,065
DIAGNOSIS OF PATIENT ADMISSIONS	משמוויד	CIII OS	te Divier	ON	
	— IUBER		12 DIVISI		
ACTIVE TUBERCULOSIS  Minimal		BMS 8		AMS 61	
Moderately Advanced		27		85	
Far Advanced Miliary		24 2		41	
Primary		10		67	
Pleurisy Silico-tuberculosis		6		14	
Abscess				3	
Addison's Disease		4		22 1	
Bone		1		9	
Erythema Nodosum Eye		_		_	
Genito-urinary		4		19	
Lupus Vulgaris		3 2		1	
Pelvic		2		_	
Pericarditis Anal Fistula					
Tuberculous Myelophthisic Anemia		<u>-</u>		1	
Positive Tuberculin Only Tuberculosis Inactive		16		34	
Non-tuberculous Disease		4 44		12 53	
For Diagnosis	***********				
TOTAL		161		427	
7	Baker Mem	orial		Aberhart M	emorial
•	Sanatoriu			Sanatori	ium
Number with positive sputum on admission	33 39				15
Number of re-admissions during 1967				2	3
Number left against advice during 1967  Number of patient days	7 22,021			63,11	
	24,021			00,11	.0
Number of patient days in other provinces under Reciprocal Agreement			69		
Total number of patient days including those in other provinces under Reciprocal Agreement			85,209		
Number of patients in other provinces (Reciprocal			00,200		
Agreement) January 1, 1967			_		
Number of admissions in other provinces under Reciprocal Agreement			3		
Number of institutional patient days provided for non- residents in Alberta under Reciprocal Agreement			1.027		
Number of patients in Alberta Sanatoria, non-residents,					
under Reciprocal Agreement, January 1, 1967 Number of admissions, non-residents, under			4		
Reeciprocal Agreement			6		
Number of active tuberculosis cases admitted for treatmen who have a history of tuberculosis, but who are no	t				
known to have been admitted for treatment anywher	e		0.7		
previously			27 20		
Number cases suspect carcinoma either on admission or					
by x-ray			47		

OPERATING ROOM REPORT

OPERAT	ING	R	OOM REPORT		
CHEST OPERATIONS: Baker	r M			Aberhart Memorial Sanatorium	Total
Major:				2	2
Lung Biopsy Lobectomy	4	(3	Foothills)	12	16
Removal Plombage				1 2 3	1 2 6 3 1
		(2	Footbille)	2 3	6
Segmental Resection Thoracoplasty with Pack Thoracoplasty d Theracoplacty	2	(2	Foothills)	ĭ	3
Thoracoplasty with Pack	ī		2 00 000000		1
				-	1
Removal of extra pleural Wax Plombage and Thoracoplasty Pneumonectomy	1			_	1
Pneumonectomy	î	(1	Foothills)	1	2
Pneumonectomy with Thoracoplasty				1	1
Minor:					F0
Bronchoscopy Chest Aspiration Bronchial Biopsy	20			36 11	56 42
Rronchial Rionsy	15			3	18
Bronchoscopy and Lung Biopsy	_			i	1
Bronchoscopy and Lung Biopsy Thoracotomy	1				1
GENITO-URINARY OPERATIONS:					
Major:					_
Orchidectomy	_			1	1
Nephrectomy Ureteroneocystostomy	2			2	1
Minor:				-	_
Cystoscopy	4			13	17
Urethral Dilatation	-			1	1
ORTHOPAEDIC OPERATIONS:					
Major:					
Posterior Fusion	1			<del>-</del>	1
Arthroplasty	_	-		1	1
Removal of pin and plate from hip				1	1
abscess with bone graft to					
Drainage psoas abscess, curettage abscess with bone graft to abscess cavity	2	(2	Foothills)	_	2
Minor:					
BiopsySetting of Colles' Fracture	]	Ĺ		1	1
Reduction of dislocated shoulder	_			i	ī
Repair of traumatic amputation finger	_	-		ī	1 1 1
Removal of corns and bone spurs	_	-		1	1
GYNAECOLOGICAL OPERATIONS:					
Major:					
Hysterectomy and Bilateral	-4	/14	T (1 (1) )		-
Salpino-oophorectomy	.1	. (1	Footnills)	_	1
Dilatation and curettage	1			_	1
OTHER MAJOR OPERATIONS:	_				_
					4
Repair right inguinal hernia	_	-		1	1
OTHER MINOR OPERATIONS:					
Insertion D.O.C.A.				9	12
Aspiration (other than chest) Laryngoscopy		5 1			5
Skin Biopsy		1		1	2
Laryngoscopy Skin Biopsy Removal rodent Ulcer	_	-		1	1
Removal of Linoma	-	-		2	2
Biopsy		1		1 1	2
Sigmoidoscope		_		1	ī
Esophagoscopy	. –	-		1	1
Removal rodent Ulcer Excision of Cervical Glands Removal of Lipoma Biopsy Sigmoidoscope Esophagoscopy Laparotomy and Biopsy of Omentum Sutering lacerated chin Scalene Node Biopsy				1 1	1
Scalene Node Biopsy Excision of Rectal Fistula		1		5	6
Excision of Rectal Fistula	_	-		1	1
Liver Biopsy Biopsy—left breast	_			2	51212121116121
MISCELLANEOUS PROCEDURES					
		_		8	70
TOTAL	. 16	6		135	301
N.B. (Foothills) indicates that this surgery wa	ıs d	one	at the Footbills	s General Hospital in Calos	ary for

N.B. (Foothills) indicates that this surgery was done at the Foothills General Hospital in Calgary for Sanatorium patients.

### SUMMARY PNEUMOTHORAX CASES

Hadan tanaka da T	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium	Total
Under treatment January 1, 1967	1 1	-	1
Out-patient	. 10		10
SUMMARY PNEUM	OPERITONEUM O	CASES	
Under treatment January 1, 1967	=	1	1
In-patient Out-patient		11 28	11 28
TOTAL		40	40

### NUMBER OF PATIENTS DISCHARGED ON DRUGS 1967

	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium	Total
Isoniazid	3	_	3
Isoniazid and Para-amino Salicylic Acid	55	180	235 3
Isoniazid and Parasol Para-amino Salicylic Acid and Streptomycin Streptomycin	-	11	11
Sucptomychi, Isomaziu anu Para-ammo	1	1	2
Salicylic Acid Ethionamide and Isoniazid Liconiazid and Stroptomicin	11	5 3	16 3
	3	8	11
Isoniazid, Para-amino Salicylic Acid and Ethionamide	_	1	1
Isoniazid and Pyrazinamide	7	3	3
Isoxyl, Para-amino Salicylic Acid and Isoniazid  Para-amino Salicylic Acid, Streptomycin, Isoniazid	2		1 1 3 8 2
and Seromycin	1	_	1 1
TOTAL	84	217	301
LABORATOI	RY REPORT		
SPUTUM EXAMINATIONS:	BMS	AMS	Total
PositiveNegative	264	315	579
	1,156	1,570	2,726
TOTAL	1,420	1,885	3,305
URINE EXAMINATIONS	5,442	8,346	13,788
BLOOD EXAMINATIONS:			
Blood Counts Sedimentation Rates Plead Sugar	2,747 1,715	5,293 2,972	8,040
Blood Sugar	302	736	4,687 1,038
TOTAL	4,764	9,001	13,765
MICORITANIPONO			
MISCELLANEOUS: Pleural Fluid	24	7	04
Spinal Fluid	8	16	31 24
Gastric Analysis Culture	3,987	1	1
Guinea Pig Inoculation	375	1,642 390	5,629 765
Other	2,381	2,990	5,371
TOTAL	6,775	5,046	11,821
WASSERMAN REPORT:			
Positive	6	11	17
Negative	148	354	502
TOTAL	154	365	519
		`	
DENTAL			
Number of patients (individuals)  Number of treatments	260 67	289 436	549 503
Number of prophylactic treatments		12	12
Number of fillings Number of extractions	60 41	133 219	193 260
Number of new dentures and repairs		72	72
TOTAL	428	1,161	1,589
		-	
MISCELLANEOUS	S PROCEDURES		
Basal Metabolism Rate	29	2 74	103
Audiogram	4	*****	4
TOTAL	33	76	109

TOTAL ....

### X-RAY DEPARTMENT REPORT

	X	-RAY DEPAI	RTMENT R	EPORT			
	Mei	aker morial torium	Me	erhart morial itorium	Total	Total	Grand Total
	In Pts.	Out Pts.	In Pts.	Out Pts.	In Pts.	Out Pts.	
Radiographs Made: Chest—Full Size Miniature Ribs Extremities Spines—Cervical Dorsal Lumbar Skull Sinuses F.P. Abdomen G.B. Series Barium Enema	684 — 7 23 — 15 39 14 — 2 5 7 7	1,159 2,099 6 24 2 12 23 23 2	1,825 2 11 43 3 13 17 5 4 7	2,574 7,570 6 38 2 9 6 —	2,509 2 18 66 11 28 56 19 6 12 10	3,733 9,669 —————————————————————————————————	6,242 9,669 2 30 128 15 49 85 21 6 12
Intravenous Pyelogram Retrograde Pyelogram Sinogram Bronchogram	33 3 — 38	5 — —	51 6 10 23	19 2 1	84 9 10 61	$\begin{array}{c} 24 \\ -2 \\ 1 \end{array}$	108 9 12 62
Ordographs (body section radiography)  Dental Sacroillac Joint Shoulder  G.I. Series	151 49 2 3	9 - 2 -	68 112 — 2	17 — — —	219 161 2 3 2	26 	245 161 2 5 2
TOTAL	1,083	3,343	2,205	10,244	3,288	13,587	13,875
Fluoroscopic Examinations Films sent in for	37	2	_		37	2	39
interpretation	1	16,418	10	),896			27,314
CLASSIFI	CATION C	ON ADMISSIO	ON OF 590	DISCHARGE	ED PATIEN	NTS	
For Diagnosis			ker Memor Sanatorium 57 15 71 2 20		rhart Memo Sanatorium 59 65 223 17 61		Total 116 80 294 19 81
					*************		_

# CLASSIFICATION ON DISCHARGE OF CASES OF TUBERCULOSIS AND TUBERCULOUS PLEURISY (TUBERCULOSIS DIVISION ONLY)

165

425

590

ON	ADMISSIO	N	ON	DISCHARGE		
	Number	Improved	Quiescent	Unimproved	Inactive	Died
Minimal	84	59	1	3	19	2
Moderately Advanced	123	84	4	5	23	9
Far Advanced	81	57	2		5	15
Primary	78	74	_	_	4	_
Miliary	7	5	_		2	_
Non-pulmonary Tuberculosis	82	74		2	5	1
Tuberculous Pleurisy	18	18			_	
TOTAL	473	371	7	10	58	27

### RESIDENCE OF DISCHARGED PATIENTS

В	aker Memorial Sanatorium	Aberhart Memorial Sanatorium	Total
SUMMARY:			20001
Cities	. 91	175	266
Towns (not included in Health Units or Counties).		1	1
Villages			
Counties	_	_	_
Enlarged Municipal Districts	. —		_
Local Improvement Districts	. 1	34	35
Health Units	. 64	189	253
Non-Residents	. 9	26	35
		_	_
TOTAL	. 165	425	590

### SEX OF DISCHARGED PATIENTS (TUBERCULOSIS DIVISION)

	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium	Total
Male Female	93 7 <b>2</b>	225 200	318 272
TOTAL	165	425	590

AGE ON ADMISSION OF DISCHARGEI	PATIENTS	(TUBERCULOSIS DIVISION)	
4 years and under From 5 - 9 years From 10 - 14 years From 15 - 19 years From 20 - 29 years From 20 - 39 years From 40 - 49 years From 40 - 49 years From 60 - 69 years From 70 - 79 years 80 years and over	21 8 8 2 3 19 25 22 22 22 18 15	38 19 19 34 67 63 49 51 41 33	59 27 21 37 86 88 71 73 59 48
TOTAL	165	11 425	21
		423	590
SOCIAL STATUS OF DISCHARGED I	PATIENTS (1	CHRERCHI OSIS DIVISION)	
Single Married Divorced Separated Widowed	48 91 3 3 20	183 177 8 21 36	231 268 11 24 56
TOTAL	165	425	590
		-100	290
DISCHARGED PATIENTS OF NON-WHI	TE ORIGIN	(THREPCHIOSIS DIVISION)	
Metis Registered Indians East Indians Chinese Japanese Negro Eskimo	3 26  5 3 1	116 59 -16 -1 1	119 85 
TOTAL	38	193	231

### RESIDENCE IN ALBERTA OF DISCHARGED PATIENTS (TUBERCULOSIS DIVISION)

		Baker Memor Sanatorium	ial	Al	berhart Memor Sanatorium	ial
	Canadian Born (exclusive of Reg. Indians)	Foreign Born	Registered Indians	Canadian Born (exclusive of Reg. Indians)	Foreign Born	Registered Indians
Non-Resident Under 1 year 1 - 5 years	3 15	3		5 1 33	1 6	1 4
6 - 9 yaers 10 - 14 years	6 <b>9</b>	7 11	2 -	13 21	5	1 3
15 - 19 years 20 - 29 years 30 or more years	6 10 29	4 5 27		26 46 146	9 3 32	19 21
TOTAL	78	61	26	298	69	58

### LENGTH OF STAY IN SANATORIUM OF DISCHARGED PATIENTS

	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium	Total Tub. Division	*Charles Camsell Hospital	Grand Total
DEATHS					
Number in Sanatorium					
under 31 days	3	9	12		12
Number of patient days	28	120	148	-	148
Average number of	0.0	#0.0	40.0		40.0
patient days Number in Sanatorium	9.3	13.3	12.3		12.3
31 or more days	3	19	22		22
Number of patient days	491	10,061	10,552		10,552
Average number of		20,002	20,002		20,000
patient days	163.7	529.5	479.6	_	479.6
DISCHARGES					
Number in Sanatorium					
under 31 days	58	89	147	7	154
Number of patient days	764	1,859	2,623	119	2,742
Average number of					
patient days	13.2	20.9	17.8	17.0	17.8
Number in Sanatorium	101	308	409	64	473
31 or more days Number of patient days	25,653	60,374	86,027	19.519	105,546
Average number of	20,000	00,012	00,021	10,010	100,040
patient days	254	196	210.3	305	223
Total number deaths					
and discharges	165	<b>42</b> 5	590	71	661
Total number patient days.	26,936	72,413	99,350	19,638	118,988
Average number patient days	163.1	170.4	168.4	276.6	180

<sup>\*</sup>Alberta Indians only considered in these figures.

# DIVISION OF MENTAL HEALTH

A. R. Schrag, M.D., C.R.C.P. (C), Director

### **ADMINISTRATION**

The Division of Mental Health concerns itself with the provision of treatment and preventive services for mentally disordered persons. Treatment and care of the mentally ill was provided by two active treatment hospitals, two continued care hospitals, and a geriatric hospital. There is a unit for emotionally disturbed children and a school hospital for retarded children admitted under the age of 16, and a hospital for the care and rehabilitation of the adult mental retardate.

Reviewing the patterns of hospitalization within the Division of Mental Health, it is noteworthy that during the years 1962 to 1967 inclusive, while the admissions to active treatment hospitals increased from 2,382 to 3,474, a difference of 1,092 patients, the number of patients in hospital at the end of the year in 1967 was 460 less than at the end of the year 1962. During the same period of time the number of patients in continued treatment and geriatric hospitals was increased by 201, giving a net decrease of 259 patients in the combined psychiatric facilities of the Division.

In the case of the mentally retarded facilities, there was an increase in population of 465 during the same period of time.

During 1967 several studies of the existing facilities were made to assist in the planning for the orderly expansion or replacement of present facilities and new facilities which will be required in the future.

Two older ward units were closed and a third was made unusable by a fire in which no injuries were sustained. A newly renovated ward building was occupied and a new ward building was completed just prior to the year's end.

Contracts were let late in the year for an Occupational and Recreational Therapy Building and a Staff Residence at the Alberta Hospital, Claresholm, and a Services Building and a Ward Building at Rosehaven, Camrose.

Another ward unit was renovated for the care of handicapped retarded children at the Baker Memorial Sanatorium, Calgary.

Plans were prepared for four new buildings to be put to tender in the ensuing year.

The Mental Health Act continued to function satisfactorily although there were several complaints to the Ombudsman which indicated the desirability of amendments to The Criminal Code of Canada which would extend the right of complaint to a review panel to patients detained by Order of the Lieutenant Governor in Council.

The Advisory Committee under The Psychiatric Nursing Training Act was active in a revision of nursing training and the program was expanded at the Alberta Hospital, Ponoka.

### **Review Panels**

There were in all 52 complaints made by 22 men and 27 women. In a number of instances more than one complaint was made by the same individual.

In seven cases the Review Panel decided that the patients had improved to such an extent that certificates were no longer necessary. In only one case did the Review Panel find that the certificates should not have been issued.

It should be noted that certificates were received on some 1,622 patients during the year, either on admission (1,312), or by change of form of admission (537), or by renewal certificates (266).

### PREVENTIVE SERVICES

The Alberta Guidance Clinic, Calgary, moved to new and enlarged quarters in the Natural Resources Building.

Although there was difficulty recruiting staff with higher levels of training, particularly psychiatrists, there was an increase in both the number of social workers and psychologists.

There was an increase of 138 new cases and 61 re-registered cases with an increase of the work-load of 10,429 interviews which was largely accounted for by increased activity in the Lethbridge-Medicine Hat area.

The source of referrals and diagnostic categories of cases referred show little variation from previous years.

The largest groups of diagnoses were:

PRE-SCHOOL AGE GROUP:	
Transient Situational Reactions Mental Deficiency Deferred Diagnoses Chronic Brain Disorders	21.9% 20.6% 20.9% 11.0%
SCHOOL AGE GROUP:	
Transient Situational Reactions Mental Deficiency Personality Disorders	34.1% 16.3% 15.2%
16 AND OVER AGE GROUP:	
Psychoneurotic Disorders Personality Disorders Transient Situational Disorders	25.2% 14.6% 14.4%

In all age groups, 1,164 new cases of mental deficiency were examined.

The reports of the individual clinics follow the consolidated statistical tables of clinic activity.

INTERVIEWS, PSYCHOLOGICAL EXAMINATIONS AND WORKLOAD BY CLINIC AREAS NEW AND RE-REGISTERED CASES, TREATMENT TABLE PROFESSIONAL STAFF, PERIODS

CLINIC AREA		STAFF		N E	NEW CASES	S	RE-R	RE-REGISTERED CASES	ERED	DIST	RIBUTIO	DISTRIBUTION OF WORK	RK	Workload
	Psychi- atrists	Psychol- ogists	Social Workers	M	뇬	Ę.	M	놴	T	Pat.	Col.	Gen.	P. E.	
Calgary and District	67	6	8 10/12	485	280	765	379	179	ις ις ∞	5,700	5,721	5,721 16,284 2,180	2, 180	29,708
Edmonton and District	4 7/12	9 3/12	11 4/12	1,326	758	2,084	452	270	722	4,366	7,263	13,247 2,428	2, 428	27,304
Lethbridge, Medicine Hat and District	F	3 1,5/12	3 4, 5/12	331	178	509	213	115	328	2,540	2,587	640	648	6,415
Ponoka and District	4.2/12	.3/12	. 002/12	113	∞ ∞	201	283	203	486	671	167	528	73	696
Red Deer and District	1	2	1 4/12	318	256	574	87	100	187	1,973	1,355	156	568	4,052
TOTALS	9 11. 2/12	23 4.8/12	9 11. 2/12 23 4.8/12 24 10.502/12 2,573 1,560 4,133 1,414	2,573	1,560	4,133	1,414	298	2,281	867 2,281 15,250 17,093 30,385 5,897	17,093	30,385	5,897	68,448

# 50,167 TOTAL NEW CASES SINCE 1929

Edmonton and District - Area East and West from Wetaskiwin North. Clinics held in Athabasca, Barrhead, Bonnyville, Camrose, Edson, Fort McMurray, Holden, Killam, Lac La Biche, Lamont, Peace River, Grande Prairie, Smoky Lake, St. Paul, Two Hills, Thorhild, Vegreville, Vermilion, Wainwright, Westlock and Wetaskiwin.

Calgary and District - Area East and West from Didsbury to Claresholm. Clinics held in Drumheller, Three Hills and Hanna

Lethbridge and Medicine Hat Districts - Area East and West from Claresholm South. Clinics held in Brooks, Crowsnest Pass, Pincher Creek

Clinics held in Castor, Stettler, Rimbey, Rocky Mountain Ponoka, Red Deer and Districts - East and West from Wetaskiwin to Didsbury. House, Ponoka and Red Deer.

New Cases - Patients examined for the first time by any Guidance Clinic in the Province.

Re-Registered Cases - Patient has been examined in Alberta Guidance Clinic prior to present year.

Col. - Collateral Contact with Parents, Relatives or those closely interested or related to the patient. Pat. - Patient Interview, Diagnosis or Therapeutic.

Gen. - General Contact regarding Clinic activity, including those with other agencies and community services including talks, addresses and teaching periods by staff members.

- Psychological Examinations and Tests.

P. E.

TABLE 2 AGE AND SEX CLASSIFICATION OF NEW CLINIC CASES

		1							1
jo :	H	15.6	38,3	25.2	7.0	5.2	6.8	1.9	100.0
Percentage Totals	FI	15,3	34.0	24.6	7.9	6.7	9.7	1,8	100.0
Per	M	15, 8	40.9	25.5	6.5	4,3	5.0	2.0	100.0 100.0 100.0
	T	645	1,582	1,040	291	216	280	62	1,560 4,133
TOTALS	压	239	530	384	123	104	152	28	1,560
TC	M	406	1,052	959	168	112	128	51	574 2,573
r	H	38	125	82	81	125	91	32	574
Red Deer and District	Ĺτι	18	46	30	41	65	42	14	256
Reand	M	20	42	52	40	09	49	18	318
rict	H	1	17	37	9	22	06	59	201
Ponoka and District	Ĺų	1	4	18	4	rU	52	22	88
F	M	1	13	19	2	17	38	24	113
ge, Hat ict	T	41	210	130	44	31	43	10	509
Lethbridge, Medicine Hat and District	ഥ	19	69	50	12	∞	18	9	178
Le Med and	M	22	145	80	32	23	25	4	331
n :ict	[	423	919	578	102	20	36	9	2,084
Edmonton and Distric	ᅜ	147	329	202	37	10	26	2	758
Ed	$\mathbb{M}$	276	290	371	69	10	10	4	765 1,326
ict	H	143	311	213	58	18	20	2	765
Calgary and District	দ্ৰ	55	98	62	29	16	14	-	280
Ca	M	88	225	134	29	2	9	1	485
A	Group	0 - 5	01 - 9	11 - 15	16 - 20	21 - 30	31 - 50	51 +	TOTALS

T - % of Total New Cases F - % of Total New Female Cases, M - % of Total New Male Cases, PERCENTAGE:

TABLE 3A
DIAGNOSTIC CLASSIFICATION OF NEW CLINIC CASES - PRE-SCHOOL AGE GROUP

								- 0	ດ	ars, 1	rears, il Months)	(sun									
	Ca	Calgary and District	ict	Ed	Edmonton nd District	r ct	Le	Lethbridge, Medicine Hat and District	ge, Hat	Pe	Ponoka and District	ct	Regand I	Red Deer and District		TOJ	TOTALS		Perce of T	Percentage of Totals **	*
DIAGNOSIS	M	[II	H	M	Ĺ	T	M	Ĺτι	L	M	Ĺı	Ŧ	M	Щ	T	M	FI	T	M	Ĺτι	T
Acute Brain Disorders	p=-1	ı		'	ı	ı	1	ı	1	ı	ı	ı	1	1	1	1	1	H	٣.	1	2.
Chronic Brain Disorders	72	2		33	20	53	2	2	4	1	1	1	2	r	7	42	29	71	10,3	12, 1	11,0
Psychotic Disorders		1	-	1	_	П	ı	1	1	ı	ı	ı	ı	1	1	-	-	2	2.	4	· .
Psycho Physiolo- gical Disorders	1	1	1	1	ı	ı	ı	1	ı	1	ı	ı	1	ı	1	ı	1	1	1	i	1
Psycho Neurotic Disorders	1	1	1	2		8	í	ı	1	1	1	1	ı	1	1	2		~	. 5	4	īŪ
Personality Disorders	∞	r.	13	17	7	24	2	2	4	ı	1	ı	-	-	2	28	15	43	6.9	6.3	6.7
Transient Situa- tional Disorders	44	25	69	45	17	62	8	ı	8	ı	1 ,	ı	ιC	2	7	26	44	141	23.9	18.4	21.9
Mental Deficiency**	∞	15	23	53	38	91	2	7	6	ı	1	1	9	4	10	69	64	133	17.0	26.8	20.6
Diagnosis Deferred	11	2	13	72	32	104	10	7	17	1	ı	1	1	-	-	93	42	135	23.0	17.6	20.9
Normal Child	10	9	16	37	23	09	-	4	П	ı	1	1	9	8	6	54	32	98	13,3	13.4	13,3
Examination or Test Only	1	1	ı	1	1	1	-	1	2	ı	ı	1	ı	2	2	<u></u>	3	4	. 2	1.3	9.
Organic Disease	1	1	1	17	00	25	П	1		i	1	i	1	ı	1	18	∞	56	4.4	3,3	4.0
TOTALS	80	55	143	276	147	423	22	19	41	1	1	1	20	18	38	406	239 (	645	100.001	100.0	100.0
				1 4 7				-				-			000		-		1		1

\* Mental Deficiency - Hereditary and Idiopathic but not as a secondary diagnosis. \*\* Percentage - M - % of Total New Males, F - % of Total new Females, T - % of Total New Cases.

TABLE 3B
DIAGNOSTIC CLASSIFICATION OF NEW CLINIC CASES - SCHOOL AGE GROUP (6 years to 15 years, 11 months)

	T	. 1	3, 1	∞.	. 7	4.5	15.2	34.1	16.3	13.9	8.6	1.7	1.0	
Percentage of Totals **	Ĺ	1	3,3	ī	∞.	6.3	10.0	33.0	18.3	16.2	8.4	2.1	1.1	
Perce of T	M		3.0	6.	9.	3.6	18.0	34.6	15.2	12.7	8	1.5	1.0	
	£-1	1	8 2	21	18	119	398	893	427	365	227	44	27	
TOTALS	Ĺ	1	30	2	7	58	91	302	167	148	77	19	10	
OH	M	-	52	16	11	61	307	591	260	217	150	25	17	
ct	H	ı	22	1	7	2	5.5	54	39	ı	22	12	1	1
Red Deer and District	Ĺц	1	6	1	1	2	13	24	1.5	1	$\infty$	rΩ	1	ì
Red	M	1	13	1	-	ı	42	30	24	1	14	7	1	
ct	T	I	1	12	1	12	12	14	ı	4	1	ı	ı	ı
Ponoka and District	ഥ	1	1	1	ı	12	4	4	1	2	1	1	ı	
Pc and 1	M	1	i	12	1	1	∞	10	ı	2	1	1	1	
fat ct	H	ı	11	ı	2	1	63	43	41	128	15	97	∞	
Lethbridge, Medicine Hat and District	ഥ	ı	2	1	2	ı	11	13	19	50	4	13		i.
Leth Medi and	Z	ı	6	1	ω	1	52	30	22	78	11	13	2	200
ct	H	Н	44	∞	4	51	199	480	302	218	165	9	19	107
Edmonton nd Distric	ഥ	1	18	7.		24	46	166	115	92	59		6	107
Edmonton and District	$\mathbb{Z}$	П	56	<sub>2</sub>	23	27	153	314	187	126	106	rv	10	
ict	H	1	r.	г	∞	54	69	302	45	15	25	1	ı	200
Calgary and District	ഥ	à	-	ı	4	20	17	95	18	4	9	1	1	371
Ca	Z	1	4	<u>~</u>	4,	34	52	207	27	11	19	1	ı	2 50
	DIAGNOSIS	Acute Brain Disorders	Chronic Brain Disorders	Psychotic Disorders	Psycho Physiological Disorders	Psycho Neurotic Disorders	Personality Disorders	Transient Situa- tional Disorders	Mental Deficiency*	Diagnosis Deferred	Normal Child	Examination or Test Only	Organic Disease	S I V I O I

\* Mental Deficiency - Hereditary and Idiopathic but not as a secondary diagnosis. \*\* Percentage - M - % of Total New Males, F - % of Total New Cases.

TABLE 3C DIAGNOSTIC CLASSIFICATION OF NEW CLINIC CASES - ADULT GROUP (16 years and over)

Fig. 1. The control of the control o		Ca	Calgary and District	rict	Ed	Edmonton	n ct	Leth Medi and	Lethbridge, Medicine Hat and District	at t	Pon and D	Ponoka and District	44	Reand	Red Deer, and District	r, ct	T	TOTALS		Д, о	Percentage of Totals **	* * *
1	DIAGNOSIS	Z	Ĺ	H	M	ĹŦį	T	M	[z <sub>1</sub>	T	M	<u> </u>	T	M	ĹIJ	T	M	(II)	-	Σ	[III	H
1	cute Brain isorders	1	1.1	ı	1	ı	1	1	1	T	1	1	1	1	1	1	1	1		. 2	1	•
- 1 1 1 5 4 9 3 1 4 4 3 20 23 8 8 8 9 1 9 9 1 9 1 9 9 1 9 1 9 1 9 1 9	hronic Brain isorders	1	1	1	9	2	∞	3	2	S	1	1	1	5	23	∞	15	7	22	3,3	1.7	2.
13   15   28   18   9   27   15   3   18   3   1   4   26   19     14   15   31   29   23   52   5   3   8   6   8   14   11     15   16   10   13   23   43   22   65   4   6   10   -     1   5   6   10   13   23   43   22   65   4   6   10   -     2   1   3   8   2   10   1   1   2   -   -   -   6     3   60   98   89   75   164   84   44   128   81   66   147   167   19     3   60   98   89   75   164   84   44   128   81   66   147   167   19     3   60   98   89   75   164   84   44   128   81   66   147   167   19     4   6   6   6   6   6   6   6   6   6	sychotic Disorders	1		-	īŪ	4	6	3	-	4	8	20	23	00	20	28	19	46	65	4,1	11.3	7.5
y  V Situational  15 15 28 18 9 27 15 3 18 3 1 4 26  Situational  16 15 31 29 23 52 5 3 8 6 8 14 11  Situational  16 15 31 29 23 52 5 5 3 8 6 8 14 11  Situational  17 15 28 18 9 27 15 1 3 2 6 5 4 6 10  Situational  18 13 15 28 18 9 27 10 1 1 2 1  Son or  19 14 15 21 28 18 6 6 10  19 15 21 28 18 6 6 10  Situational  19 15 21 2 3 18 2 6 10  Situational  10 15 31 29 23 52 1 3 8 6 6 8 14 11  Situational  10 15 31 29 23 52 1 3 8 6 6 10  Situational  10 15 31 29 23 52 1 1 3 2 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	sycho Physiological isorders	1	1	1	1	1	1	1	1	1	1	1	1	1	1	ı	1	1	1		1	
y         13         15         28         18         9         27         15         3         18         3         18         3         1         4         26           Situational         16         15         31         29         23         52         5         3         8         6         8         14         11           ficiency **         -         2         4         6         10         2         1         3         8         14         11           Deferred         1         5         6         10         13         23         43         22         65         4         6         10         -	sycho Neurotic isorders	5	16	2.1	4	14	18	4	9	10	65	31	96	19	54	73	76	121	218	21,1	29.7	25.2
**         -         2         4         6         10         2         1         3         -         -         1         1         3         -         -         1         1         1         3         -         -         1         1         1         3         -         -         1         1         1         3         -         -         -         1         1         3         -         -         -         1         1         3         -         -         -         1         1         3         8         2         10         1         1         2         4         6         10         -         1         1         2         -         -         1         1         4         2         6         -         -         -         6         9           1         1         1         1         1         4         2         6         - <td>ersonality isorders</td> <td>13</td> <td>15</td> <td>28</td> <td>18</td> <td>6</td> <td>27</td> <td>15</td> <td>8</td> <td>18</td> <td>8</td> <td>1</td> <td>4</td> <td>97</td> <td>23</td> <td>49</td> <td>75</td> <td>51</td> <td>126</td> <td>16.4</td> <td>12, 5</td> <td>14.6</td>	ersonality isorders	13	15	28	18	6	27	15	8	18	8	1	4	97	23	49	75	51	126	16.4	12, 5	14.6
**       -       2       2       4       6       10       2       1       3       -       -       -       1         2       1       3       8       2       10       1       1       2       4       6       10       -         -       5       5       -       1       1       4       2       6       -       -       6         -       -       -       5       1       6       3       3       6       -       -       89         -       -       -       -       5       1       6       3       3       6       -       -       -       2         88       55       143       276       147       423       225       19       41       -       <	ransient Situational isorders	16	15	31	59	23	25	5	8	∞	9	∞	14	11	6	20	29	58	125	14.6	14.3	14.4
ed 1 5 6 10 13 23 43 22 65 4 6 10 - 6 10 - 6 10 - 6 10 - 6 10 1 1 1 2 - 7 - 6 10 1 1 1 2 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	(ental Deficiency *	1	2	2	4	9	10	2	-	3	1	1	å	1	ı	p=1	7	6	16	1.5	2.2	1.9
A 88 55 143 276 147 423 22 19 41 28 81 66 147 167 C 38 60 98 89 75 164 84 44 128 81 66 147 167 C 38 60 98 89 75 164 84 44 128 81 66 147 167 C 38 60 98 89 75 164 84 44 128 81 66 147 167 C 38 60 98 89 75 164 84 44 128 81 66 147 167 C 38 60 98 89 75 164 84 44 128 81 66 147 167 167 C 38 60 98 89 75 164 84 44 128 81 66 147 167 167	iagnosis Deferred	pro-s	2	9	10	13	23	43	22	69	4	9	10	ı	1	1	50	46	104	12.6	11.3	12.0
A 88 55 143 276 147 423 22 19 41 - 2 0 6 147 167    B 359 165 524 961 536 1,497 225 115 340 32 22 54 131    C 38 60 98 89 75 164 84 44 128 81 66 147 167    C 38 60 98 89 75 164 84 44 128 81 66 147 167    C 38 60 98 89 75 164 84 44 128 81 66 147 167    C 38 60 98 89 75 164 84 44 128 81 66 147 167    C 38 60 98 89 75 164 84 45 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 128 81 66 147 167    C 38 60 98 89 75 164 84 164 168 81 66 147 167    C 38 60 98 89 75 164 84 164 168 81 66 147 167    C 38 60 98 89 75 164 84 164 84 164 164 164 164 164 164 164 164 164 16	ormal Child	2	-	3	∞	2	10	1	1	2	1	1	ı	9	14	20	17	18	35	3.7	4.4	4.0
A 88 55 143 276 147 423 22 19 41 - 2 20  S 86 0 98 89 75 164 84 44 128 81 66 147 167  E 38 60 98 89 75 164 84 44 128 81 66 147 167  C 38 60 98 89 75 164 84 44 128 81 66 147 167	xamination or est Only	1	2	Ŋ	ı	-	П	4	2	9	1	1	1	68	37	126	93	45	138	20.3	11.1	15.9
A 88 55 143 276 147 423 22 19 41 20  B 359 165 524 961 536 1,497 225 115 340 32 22 54 131  C 38 60 98 89 75 164 84 44 128 81 66 147 167	rganic Disease	1	1	1	5	-	9	3	3	9	1	ı	1	2	2	4	10	9	16	2.2	1.5	1.9
A 88 55 143 276 147 423 22 19 41 20  B 359 165 524 961 536 1,497 225 115 340 32 22 54 131  C 38 60 98 89 75 164 84 44 128 81 66 147 167	OTALS	38	09	98	89	75	164	84	44	128	81	99	147	167	162	329	459	407	998	100.0	100.0	100.0
C 38 60 98 89 75 164 84 44 128 81 66 147 167	Table	88	55	143	276	4	423	22	19	41	1	1	1	20	18	38	406	239	645	15.8	15.3	15.6
C 38 60 98 89 75 164 84 44 128 81 66 147 167	Table 3B	359	165	524	961	536	1,497	225	115	340	32	22	54	131	92	207 1	1,708	914	2,622	66.4	58.6	63.4
	Table 3C	38	09	86	89	75	164	84	44	128	81	-	147	167	162	329	459	407	998	17.8	26. 1	21.0
485 280 (65 1,526 758 2,084 331 178 509 113 88 201 318	GRAND TOTALS	485	280	765	1,326	758	2,084	331	178	509	113	88	201	318	256	574 2	2,573	1,560	4,133	100.0	100.0	100.0

Mental Deficiency - Hereditary and Idiopathic but not as a secondary diagnosis. Percentage - M - % of Total New Males, F - % of Total New Females, T - % of Total New Cases. \* \*

TABLE 4
SOURCES REFERRING NEW CASES TO CLINICS

	Cg	Calgary and District	ict	Ecand	Edmonton and District	on ct	Leth Medi and	Lethbridge, Medicine Hat and District	at t	Pon and D	Ponoka and District		Red and D	Red Deer and District	44	H	TOTALS		Perc	Percentage of Totals *	
Referral Source	Z	ഥ	T	M	ഥ	T	M	<u>—</u>	T	M	FI	L	M	(H	H	M	[Ti	T	M	ſΉ	ш
Schools and School Authorities	23	13	36	504	212	716	90	62	62	9	15	21	43	18	61	929	287	913	24.3	18.4	22. 1
Private Doctors and Medical Clinics	16	13	56	231	150	381	43	56	72	06	46	136	64	103	167	444	341	785	17.3	21.9	19.0
Medical Clinics, Rehabilitation, Cerebral Palsy, TB, O. P. D.		m	10	44	27	7.1	1	1	1	1	1	1	52	22	62	108	52	160	4. 2	3,3	3.9
Health Units, Public Health Nurses, M.O.H.	52	21	73	73	43	116	126	63	189	7	7	4	97	12	38	279	141	420	10.8	9.0	10.2
Child Welfare - Prov- incial and Municipal	83	49	132	112	94	206	6	9	15	1	П	2	23	16	39	228	166	394	8.9	10.7	9.5
Juvenile and Family Court, Gaols, Bowden Institute	7		00	11	2	13	26	ın	31			1	18	9	24	62	14	92	2.4	6.	1.8
Parents, Relatives, Friends, Self	289	164	453	312	196	508	51	35	98	13	23	36	51	64	115	716	482	1,198	27.8	30.9	29.0
Dept. of Health (Prov.)	2	16	18	j.	2	2	2	-	8			2	1	2	2	rU	22	27	. 2	1.4	9.
Other	9	'	9	39	32	71	24	10	34	1	1	ı	36	13	49	105	55	160	4.1	3, 5	3.9
TOTALS	485	280	765	1,326	758	2,084	331	178	509	113	88	201	318	952	574	2,573	1,560	4, 133	100.0	100.0	100.0

\* Percentage

M - % of Total New Male Cases F - % of Total New Female Cases T - % of Total New Cases

TABLE 5 MAJOR RECOMMENDATIONS MADE IN REGARD TO NEW CLINIC CASES

	C	Calgary and District	y	Ecand	Edmonton and District	n ct	Le Mec and	Lethbridge, Medicine Hat and District	ge, Hat ict	and	Ponoka and District	ict	Red and I	Red Deer and District	44	J.	TOTALS		Pe	Percentage of Totals	e
Recommendation	M	Ĺ	H	M	ĹΊ	T	M	ഥ	T	M	[H	H	Z	H	L	M	Ĺ	H	Z	Ĺ	H
Admission to: (a) Mental Hospital (b) Alberta School	-	1	7	2	\$	2	9	1	7	3	9	6	23	4	7	15	11	26	9.	7.	9.
Hospital and Deerhome	9	4	10	23	22	45	2	~	5	1	1	1	1	4	4	31	33	64	1.2	2.1	1.6
Placement in Protective or Correctional Home or Institution	19	9	25	7	r.	12	1	1	ı	1	ı	1	2	3	r.C.	28	4.	42	1.1	6.	1.0
Placement in Foster Home	21	6	30	18	12	30	2	1	2	1	-		ı	1	1	41	22	63	1.6	1.4	1.5
Educational Advice, Modified Program, Spec. Class, Vocational	13	7	20	697	158	427	47	22	69	1		7	82	32	114	412	220	632	16.0	14.1	15.3
Educational Advice,	17	13	30	162	56	218	8	ı	23	12	2	14	1		-	194	72	566	7.5	4.6	6.5
Modified Home Management	220	06	310	199	102	301	10	4	14	_	П	2	31	32	63	461	529	069	17.9	14.7	16.7
Referred for Medical Treatment	Ŋ	γ)	00	09	45	105	7	2	6	4	9	10	13	38	 	89	94	183	3,5	6.0	4.
Treatment in Clinic	113	94	207	128	105	233	25	20	45	83	99	149	151	104	255	200	389	889	19.4	25.0	21.5
Other	70	54	124	458	253	711	229	126	355	6	5	14	36	38	74	802	476	1,278	31.2	30.5	30.9
TOTALS	485	280	165	1,326	758	2,084	331	178	509	113	88	201	318	256	574 2	2,573	1,560	4, 133	100.0	100.0	100.0

SUMMARY OF NUMBER OF MENTAL DEFECTIVES EXAMINED BY YEARS

nu- ve	als	5,266	5,610	6,055	6,396	6,861	7,307	606,2	934	068,6	10,852	12,016
Cumu-	Total	τυ,	τζ.	9	, 6	6,	7,	7,	∞ •	6	10,	12,
Percent of New	Cases	8	18.7	22.3	16.2	20.2	16.9	20.0	29.5	25.6	24.2	28. 2
	T	to 1958	344	445	341	465	446	602	1,025	926	962	463   1,164
TOTALS	Ĺη	Examined	147	190	144	203	197	253	412	407	358	463
TOT	M		197	255	197	292	249	349	613	549	604	701
	H	Defectives	51	42	31	93	98	129	98	123	84	261
Unspecified	ᄺ	l Defe	27	15	11	38	40	53	37	57	31	115
Unspe	M	Menta	24	27	20	55	46	92	49	99	53	146
85	H	Number of Mental	199	280	235	272	248	336	552	445	497	505
	<u> </u>	Numb	80	121	86	118	106	142	196	183	170	175
Mild I. Q. 70 -	M		119	159	137	154	142	194	356	262	327	327
0	H		29	100	71	73	93	107	265	274	245	259
Moderate Q. 50 - 70	ഥ		56	44	34	33	42	48	117	124	101	109
I. Q.	M		38	26	37	40	51	59	148	150	144	150
50	Н		27	23	4	27	19	30	122	114	136	142
Severe I. Q. Below 50	[Ti		11	10		14	6	10	62	43	99	64
Se I. Q.	M		16	13	33	13	10	20	09	71	80	78
	YEAR		1958	1959	1960	1961	1962	1963	1964	1965	1966	1967

I. Q. - Intelligence Quotient
 M - Male, F - Female, T - Total
 Includes cases of mental deficiency secondary to primary diagnosis

## ALBERTA GUIDANCE CLINIC, CALGARY N. C. Horne, M.B., M.R.C.S., D.P.M., Director

The professional staff at the year's end numbered 19 full-time and six half-time people. Of these only six full-time and four half-time members had a continuous service of over 12 months. The staff deficit was 12.5% of the minimum required for efficient service operation. It continued to be difficult to obtain senior trained staff for whom two vacancies remained. One medical officer resigned in June to go into private practice, and one medical officer trainee came on staff in July. The total professional staff interchange over the year involved 26 people.

The Clinic moved into pleasant new premises the middle of June which alleviated the over-crowding and lack of office space.

In-service training remained at the level of three and one-half hours per week for junior staff and trainees.

By arrangement with the University of Calgary two post-graduate psychologists carried out a clinical research project under joint supervision of the University and the Guidance Clinic for a three-month period, and two psychology students served a Clinical Internship during the four summer months.

Junior Residents from the General Practice Residency Programme at the General Hospital, Calgary, attended the Clinic on a rotation basis, four half-days a month, to receive instruction on interview techniques and participate in the intake routine of the Clinic. The first group of Junior Residents completed their year in June and a second group of first year Junior Residents began in September.

The Psychiatric and Educational Centre required considerable psychiatric supervision by and with the assistance of the professional staff in carrying out therapy. Arrangements for volunteers and for transportation of the children still remained a heavy responsibility. The Centre operated on a full day, five-day-a-week basis, with 16 children, together with one or both parents, under treatment. Lack of adequate space for the Centre created a problem.

SUMMARY OF NEW AND RE-REGISTERED CASES AND WORK LOAD

Clinic Centre Calgary	New	Re-	Increase	Work
	Cases	registered	Decrease	Load
	725	509	— 91	29,146
Drumheller (Three Hills) Hanna High River	28	29	+ 1	389
	6	20	- 19	137
	6	—	+ 6	36
Total	765	558	<del></del>	29,708

Due in part to referral sources becoming more skilful, the types of cases dealt with in 1967 were of a more serious and difficult nature. As a result a greater demand was placed on intensive treatment, consultation and follow-up procedure. This was reflected in the increase in work load and therapy hour figures.

AGE AND SEX DISTRIBUTION OF NEW CASES

Age 0 - 6 - 11 - 16 -	10/11 15/11	Male 88 225 134 29	Female 55 86 79 29	Total 143 311 213 58 18	Percentage 18.69 40.65 27.84 7.58 2.36
31 - 51 a	30/11	6 1 485	16 14 1 280	20 2 765	2.62 .26 

The ratio of male to female cases is 1.73:1.

There were 205 mental defectives examined of whom 10 were recommended to the appropriate institution.

One emotionally disturbed child was admitted to the University Hospital, Edmonton.

One emotionally disturbed child was admitted to the Kiwanis Home, Edmonton,

One emotionally disturbed child was admitted to the Diagnostic and Treatment Centre, Edmonton.

Treatment Cases: There were 310 cases dealt with on modified home management lines and 207 cases referred for intensive treatment consideration in the Clinic.

Treatment carried out in the Clinic: A total of 227 cases was treated of which five were on drug therapy. The sex distribution was female to male 117 to 110 or 1.06:1.

New cases	106 <b>121</b>
Total.	227
Individual therapy	158 69
Total	227

#### TREATMENT CASES TERMINATED IN 1967

Much improved	21 t 75 }	96 or 88.08%
Not improved	13	11.92%

#### ANALYSIS OF TIME SPENT IN THERAPY HOURS

Psyc	chiatrists	Psychologists	Social Workers	Total
Individual therapy		1,159 296 16 388	1,311 1,366 84 1,051	3,055 1,801 206 1,495
Total	886	1 859	3.812	6.557

Each worker continued to supervise "possible treatment" cases.

THE "POSSIBLE TREATMENT" CASES  Number of cases carried from 1966  Number of cases acded in 1967  Total	192 353 545
Number of cases closed: Improved Transferred to follow-up Transferred to another agency Transferred to intensive treatment Moved away Refused contact	
Total	336

Ninety-nine cases were transferred from one worker to another because of staff changes.

An abbreviated man-power-hour system of recording was started in 1967 and from this system it was possible to analyse the work load.

· ·	Overall	Senior Staff
Time spent on service Time spent on administration Time spent on deucation Time spent on instruction Time spent on research Time spent unaccounted	79.8 7.7 7.7 0.1 } 7.8% 0.6 4.1	69.2 27.3 6.5 0.3 6.8% 0.0 2.0

These were percentages of the available Clinic time and do **not** include activities undertaken outside Clinic time.

It was clear that, overall, 87.5% of the available time of all the staff was spent on service and administration. The burden of service plus administration falls more heavily upon the senior staff.

Demands were made upon the Clinic staff for teaching and research procedures, but it was clear, from the

distribution of service and administration requirements, that it was not possible to supply these without a redistribution of staff and work.

#### **Public and Educational Activities**

Public Education ... 27 public addresses and panels Special Educational

and Agency ..... 39 addresses, seminars and panels
Special Clinic Visitors 10 distinguished visitors

## ALBERTA GUIDANCE CLINIC, EDMONTON T. C. Michie, M.D., C.R.C.P.(C), Acting Director

The Alberta Guidance Clinic, Edmonton, and its sub-office in Grande Prairie provided preventive mental health services primarily for children up to about age 18 to the northern half of the Province of Alberta, an area bounded on the south by a line running from Jasper National Park through Wetaskiwin to Provost and extending northward to High Level and Fort Chipewyan.

When not travelling, the Edmonton Clinic served the Edmonton and Edmonton Rural area, an area consisting of 1,900 square miles and housing a population of 416,203. The Grande Prairie Clinic was responsible for the Grande Prairie and Peace River Health Unit areas, a population of 88,344 and an area of 44,700 square miles. When travelling, the Grande Prairie Clinic also reached points outside these Health Unit areas such as High Level, La Crete, Fort Vermilion, Wabasca-Desmarais, Kinuso, and Slave Lake. The two Clinics served a total area of 100,300 square miles and a population of 770,721.

Edmonton Clinic Teams consisting of a Psychiatrist, a Psychologist and a Psychiatric Social Worker, or more, depending on the case load, spent 84 working days travelling to towns within the following Health Unit areas:

- (a) Jasper National Park, Edson, Stony Plain-Lac Ste. Anne, Sturgeon
- (b) North Eastern Alberta
- (c) Athabasca, Alberta East Central
- (d) Minburn-Vermilion, Vegreville

Semi-annual trips were made to Fort Chipewyan and Fort McMurray in conjunction with the above trips. Special, non-scheduled trips were made as the demand arose and time and personnel permitted. All requests for special Clinics were met. Trips of this nature were made to Onoway, Whitecourt and Grande Prairie.

As in the past, a Psychiatrist and Psychologist from the Edmonton Clinic provided service to points in the Northwest Territories and the Yukon. In February, 13 patients were seen in Whitehorse and 20 in Yellowknife.

The Grande Prairie Clinic was staffed by two Psychologists, one Psychiatric Social Worker and two Clerks. A Psychiatrist from the Edmonton Clinic travelled to the Grande Prairie-Peace River areas three days a month except during July and August. In addition to travelling with the Edmonton Psychiatrist three days a month, the professional staff of the Grande Prairie Clinic spent another 60 days a year travelling to some 20 or more towns scattered throughout their area.

On April 1st the Clinic's establishment of personnel was increased by the addition of one Psychologist, one Psychiatric Social Worker and one Clerk-Stenographer. As at December 31st the positions available and filled were as follows:

Positions Available	POSITIO Edmonton	ONS FILLED Grande Prairie	Total Filled
Medical Officers	5	-	5
Psychologists 11 Psychiatric	81/2	2	101/2
Social Workers 12 Clerical 16	9 11	1 2	10 13
45	33 1/2	5	38½
		_	

In addition, a Psychiatrist, a Psychiatric Trainee, a Psychologist, and two Psychiatric Social Workers were provided to the School Hospital section of the Glenrose Provincial General Hospital.

Professional training grants were provided to two Psychologists and three Psychiatric Social Workers for further professional training at various centres in Canada and it is expected that these persons will return to the service.

SUMMARY OF NEW AND RE-REGISTERED CASES AND WORK LOAD

	MOINE	HOAD		
Clinic Centre	New Cases	Re- Registered	Increase Decrease	Work Load
Athabasca	31	9	+ 3	113
Westlock	38 46	7 8	10 1	127 261
Camrose, Killam	32	14	— 8	169
Edmonton Rural	933 209	452 6	+216 + 10	22,555 110
Edson	61	21	17	339
Fort McMurray	44 10	3 <b>2</b>	+ 13 — 1	178 62
Lac La Biche	22 6	8	— 22 — 24	101 57
Peace River-Grande				
Prairie	411	124	+ 24 17	2,122
St. Paul	20	4	- 16	177
Two Hills	7 21	13	6 18	27 181
Vermilion Wainwright	57 44	16 14	8 9	379 208
Wetaskiwin	30	12	26	183
Whitehorse, Y.TYellowknife, N.W.T	22 40	3	$-\frac{15}{-22}$	61 94
	2,084	722	+ 46	27,504

The decrease of patients seen by the travelling Clinics was mainly attributable to a more refined screening process adopted by the referral sources. Six centres, Edson, Lac La Biche, Lamont, St. Paul, Vegreville and Wetaskiwin, accounted for 85% of the decrease. Also, when feasible, centres close to Edmonton were encouraged to use the facilities in Edmonton rather than wait for a travelling Clinic to visit their area.

AGE AND SEX DISTRIBUTION OF NEW CASES

Age	Male	Female	Total	Percentage
0 - 5/11	276 961 89	147 536 <b>75</b>	423 1,497 164	20.30 71.83 7.87
	1,326	758	2,084	100.00

Ratio of male to female cases 1.74 to 1.

During 1967, the Clinic concentrated on reducing the Clinic's waiting list. To this end a Group Intake system was adopted and it proved most successful. By the end of the year it was possible to revert to individual intakes as the waiting time was reduced to the time necessary to gather reports from sources such as schools, family doctors, et cetera, normally two to three weeks.

## ALBERTA GUIDANCE CLINIC, LETHBRIDGE J. Bower, L.R.C.P., L.R.C.S., L.M., L.A.H., D.P.M., Director

At the beginning of January, 1967, the professional staff consisted of one full-time and one part-time psychologist and two full-time social workers. During the year a final-year medical student worked on the staff for a few

months. Various centres shown in the table below were visited. No visits were made to Brooks in the period covered. There were marriage counselling sessions and vocational testing services and services were continued at the local gaol. The usual amicable relations with other agencies were maintained. The director and senior psychiatric social worker have given talks to professional and lay groups in the district. The director has appeared on television programmes dealing with Mental Health on several occasions.

SUMMARY OF NEW AND RE-REGISTERED CASES AND WORK LOAD

Clinic Centre	New Cases	Re- Registered Cases	Increase or Decrease	Work Load
Cardston	25	5	+ 22	101
Crowsnest Pass	22	9	+ 13	111
Fort Macleod			- 3	_
Lethbridge	306	207	+ 81	5.014
Medicine Hat	103	79	+ 40	905
Pincher Creek	27	4	+ 23	110
Vulcan	23	24	+ 13	163
Warner	3	-	+ 3	11
TOTALS	509	328	+192	6,415

AGE AND SEX DISTRIBUTION OF NEW CASES

Age	Male	Female	Total	Percentage
0 - 5/11	22	19	41	8.05
6 - 15/11		115	340	66.80
16 and over	84	44	128	25.15
TOTALS	331	178	509	100.00
The ratio of male to	female ca	ses was 331	to 178 or	1.9 to 1.

ALBERTA GUIDANCE CLINIC, PONOKA D. L. Phillips, M.D., Spec. Psych., R.C.P.S.(C), Acting Director

During 1967 Guidance Clinics were again conducted by various members of the staff of the Alberta Hospital, Ponoka, on a part-time basis. The work load was divided as follows: Psychiatrist — 883 interviews; Psychologist — 80 interviews; Social Worker — 6 interviews, with a work load of 969.

Adults and children from Ponoka, Lacombe, Wetaskiwin, Rimbey and other points were seen for consultation and treatment. One doctor devoted one-half day a week to adult out-patients, and other doctors also saw a number of patients, including an increasing number of adolescents. Clinics for children were held at the Wetoka Health Unit. A number of children, adolescents and parents were also seen at the hospital by doctors and psychologists. Discussions were held with teachers and school counsellors.

# | SUMMARY OF WORK LOAD | | Re-Registered | Cases | Increase | Work Load | 29 | 969 |

Although all patients referred were seen for consultation, psychiatrists did not have enough time to offer adequate follow-up treatment. A need for more psychiatric service was evident.

TABLE OF NEW CASES-AGE AND SEX DISTRIBUTION Female Total Percentage Male Age 0 - 5/11 .. 6 - 15/11 ... <u>-</u>22 54 32 16 and over ...... 66 147 88 100.00 201 .... 113

Female

113

88

= 1.3:1

Ratio of Male

During 1967 members of the Guidance Clinic team conducted tours of the hospital for 17 groups and organizations — a total of 424 people — as well as arranging for speakers for each occasion. They also took part in outside discussions on mental health topics or were principal speakers at various meetings in Central Alberta.

# ALBERTA GUIDANCE CLINIC, RED DEER J. B. Haigh, M.B., Ch.B., D.P.M., Spec. Psych. C.R.C.P.(C), Director

The staff of the Alberta Guidance Clinic, Red Deer, consisted of a psychiatrist, senior psychologist, junior psychologist who joined the staff in May, social worker, secretary and clerk-typist. The services of a temporary social worker during the summer months was of considerable assistance in coping with the increased number of requests for clinic services.

The work load of the Clinic continued to increase. The undernoted table indicates the number of interviews and psychotherapy sessions held in the Red Deer and out-of-town clinics:

Clinic Centre	New	Re-Registered	or	Work
	Cases	Cases	Decrease	Load
Olds	6	1	- 4	56
	524	169	+12	3.585
Rocky Mtn. Hse		2	+ 9	182
Stettler		15	+ 23	229
Total	574	187	+40	4,052

Two additional clinics were held in Rocky Mountain House because of the additional referrals. A two-day clinic was held in Hobbema at which eighteen children were seen, and arrangements have been made for clinics in Hobbema in 1968. The number of interview hours increased by 288, making a total of 4,052 interviews.

The age and sex distribution of new cases was as indicated below:

Age	Male	Female	Total	Percentage
0 - 5/11	20 131 167	18 76 162	38 207 329	6.62 36.06 57.32
Total	318	256	574	100.00

The Director visited Deerhome one-half day per week on a consultative basis, and contributed to the training program by lecturing. The Clinic Social Worker and a Psychologist lectured on a twice-weekly basis at Deerhome. Considerable psychological testing was done for the Alberta School Hospital and Deerhome. Requests from individuals for vocational testing and guidance increased, and many tests of this nature were done at the request of the Canada Manpower Centre. Fifty-five patients were seen on a consultative basis at the Red Deer General and Auxiliary Hospitals, eighteen courses of Electro-Convulsant and five courses of Insulin therapy were administered, and thirty-five patients were seen at the Clinic on a continuing basis on referral from the Alberta Hospital, Ponoka.

The Guidance Clinic in Red Deer received referrals from the Juvenile and Family Courts and the Probation Branch, the John Howard Society, Social Service Department of the City, Provincial Welfare Department, Alcoholism Foundation, Family Service Bureau, City and County school divisions, School for the Retarded, Red Deer Health Unit, as well as the various medical clinics and

private physicians in the area.

The increased impetus to Guidance Clinic work in the City of Red Deer was made possible by the addition of a junior psychologist, the services of another social worker during the summer months, and the psychiatrist's encroachment upon his own time in order to accommodate urgent cases.

## ACTIVE TREATMENT HOSPITALS

ALBERTA HOSPITALS - EDMONTON AND PONOKA

In 1967 there was a marked difference in the rate of admissions to the two active treatment hospitals.

While there was a marked drop (181) in admissions to the Alberta Hospital, Ponoka, from 1,422 in 1966 to 1,241 in 1967, at the Alberta Hospital, Edmonton, there was an increase of 183 admissions from 2,050 to 2,233, which is an all time high for any hospital in the Division.

Similarly there was a higher rate of voluntary admissions, 60.4% at the Alberta Hospital, Edmonton, than at the Alberta Hospital, Ponoka, (44.62%) as well as a higher number of forensic admissions which were 186 and 59 respectively.

The difference between the activity of the two hospitals is possibly due to the proximity of the Alberta Hospital, Edmonton, to the City of Edmonton and to the enlargement of the out-patient program of the Alberta

Hospital, Ponoka in the City of Calgary.

A study of the Diagnostic Classification of the type of illness on first admission and on readmission emphasizes the seriousness of schizophrenia which represented 17 to 19% of first admissions, and 32 to 37% of readmissions.

At the end of the year, 49.2% of the patients on the books of both hospitals were schizophrenic.

Alcoholism represented 26.4% of first admissions and 25.7% readmissions to the Alberta Hospital, Edmonton.

Both hospitals carried out active programs of treatment in keeping with current concepts and the out-patient programs of both hospitals were enlarged. Halfway houses and foster home programs were well patronized by both hospitals.

The reports of the individual hospitals follow the consolidated statistical tables.

TABULATED SUMMARY - INSTITUTIONS - MOVEMENT OF POPULATION

	Patients in December	s in Hospital ber 31, 1966	spital 1966	Ad (exclud	Admissions (excluding transfers)		Discharges (excluding transfers)	Discharges	sfers)	De	Deaths		Patients in Hospital December 31, 1967	in Hosp er 31,	pital 1967
INSTITUTIONS	M	ĹΤΙ	[-1	M	14	T	M	ĹΤΙ	H	M	ĺΉ	T	M	Ĺų	T
ACUTE MENTAL HOSPITALS:															
Alberta Hospital, Ponoka	691	338	1,029	725	516	1,241	789	491	1,280	51	23	74	009	360	096
Alberta Hospital, Edmonton	168	485	1,253	1,386	847	2, 233	1,343	908	2, 149	53	35	88	707	434	1,141
TOTAL	1,459	823	2, 282	2,111	1,363	3,474	2, 132	1,297	3,429	104	58	162	1,307	794	2,101
CHRONIC MENTAL HOSPITALS:															
Rosehaven, Camrose	270	214	484		1	-	1	-	2	09	31	.91	247	220	467
Alberta Hospital, Claresholm	109	233	342	1	-	_	1	3	3	1	11	12	105	236	341
Alberta Hospital, Raymond	1	117	117	1	1	1	1	1	t	ı	3	3	1	119	119
TOTAL	379	564	943	1	-	2	1	4	5	61	.45	106	352	575	. 927
INSTITUTIONS FOR MENTAL DEFECTIVES, RED DEER:															
Alberta School Hospital	514	408	922	83	20	133	32	14	46	11	7	18	541	436	677
Deerhome	999	553	1,219	17	17	34	4	2	9	6	7	16	682	546	1,228
TOTAL	1,180	961	2,141	100	29	167	36	16	55	20	14	34	1,223	982	2,205
UNIT FOR EMOTIONALLY DISTURBED CHILDREN:															
Linden House, Red Deer	11	70	16	41	2	9	6	2	11	1	t	1	9	4	10
OVERALL TOTALS	3,029	2,353	5,382	2,216	1,433	3,649	2,178	1,319	3,497	185	117	302	2,888	2,355	5,243

TABLE 2 TOTAL FIRST ADMISSIONS BY DIAGNOSIS ALBERTA HOSPITAL, EDMONTON ALBERTA HOSPITAL, PONOKA

### TABLE 3 TOTAL READMISSIONS BY DIAGNOSIS ALBERTA HOSPITAL, EDMONTON ALBERTA HOSPITAL, PONOKA

				TEDESTITE TOOLITAL,	TOMORY		
Diagnostic Classification	Male	Female	Total	Diagnostic Classification	Male	Female	Total
General Paralysis of the Insane	1		1	General Paralysis of the Insane			
Syphilis of Central Nervous System	_			Syphilis of Central Nervous System		-	7
Schizophrenia (All Categories)	187	133	320	Schizophrenia (All Categories)	316	273	~00
Manic Depressive (All Categories)	33	34	67	Manic Depressive (All Categories)	60		589
Involutional Melancholia	6	15	21	Involutional Melancholia		60	120
Paranoia and Paranoid States	15	16	31	Paranoia and Paranoid States	11	30	41
Senile Psychosis	27	42	69	Canila Bayahasia	15	19	34
Pre-Senile Psychosis	6	3	9	Senile Psychosis	7	7	14
Psychosis with Cerebral Arteriosclerosis	75	42	117	Pre-Senile Psychosis	2	1	3
Alcoholic Psychosis	28	4	32	Psychosis with Cerebral Arteriosclerosis	19	4	23
Psychosis of Other Demonstrable Etiology	16			Alcoholic Psychosis	43	13	56
Other and Unapposited Developer Ethology	16	11	27	Psychosis of Other Demonstrable Etiology	17	12	29
Other and Unspecified Psychoses		10	20	Other and Unspecified Psychoses	18	16	34
Anxiety Reaction	15	12	27	Anxiety Reaction	12	18	30
Hysterical Reaction	_	7	7	Hysterical Reaction		9	9
Obsessive-Compulsive Reaction				Obsessive-Compulsive Reaction	1	_	1
Neurotic Depressive Reaction	46	85	131	Neurotic Depressive Reaction	46	50	96
Psychoneurosis with Somatic Symptoms				Psychoneurosis with Somatic Symptoms		00	00
(Somatization Reaction) Affecting				(Somatization Reaction) Affecting			
Circulatory System	_	2	2	Circulatory System			
Other and Unspecified Psychoneurotic				Other and Unspecified Psychoneurotic			_
Reactions	13	22	35	Reactions	10	29	39
Pathological Personality (All Categories)	120	31	151	Pathological Personality (All Categories)	82	38	120
Immature Personality	39	34	73	Immature Personality	15	25	40
Alcoholism Without Psychosis	303	59	362	Alcoholism Without Psychosis	325	38	
Other Drug Addiction	2	1	3	Other Drug Addiction		38	363
Primary Childhood Behaviour Disorders	6	7	13	Other Drug Addiction	4	<u>±</u>	5
Mental Deficiency Without Psychosis	23	23	46	Primary Childhood Behaviour Disorders	5	7	12
Other and Unspecified Disorders of	20	40	40	Mental Deficiency Without Psychosis	20	16	36
Character, Behaviour and Intelligence	20	23	40	Other and Unspecified Disorders of			
		43	43	Character, Behaviour and Intelligence	10	17	27
Paralysis Agitans	1	_	1	Paralysis Agitans	_		
Epilepsy	11	7	18	Epilepsy	15	8	23
Puerperal Psychosis		7	7	Puerperal Psychosis		3	3
Other Diseases of Brain	2	_	2	Other Diseases of Brain		1	1
Mental Observation Without Need for				Mental Observation Without Need for			
Psychiatric Care	31	18	49	Psychiatric Care	7	4	11
Nervousness and Debility		_		Nervousness and Debility	_		
Other Non-Psychiatric Conditions	13	14	27	Other Non-Psychiatric Conditions	2	1	3
TOTALS	1049	662	1711	TOTALS	1062	701	1763

TABLE 4 DIAGNOSIS OF PATIENTS ON BOOKS, DECEMBER 31, 1967 ALBERTA HOSPITAL, EDMONTON ALBERTA HOSPITAL, PONOKA

Diagnostic Classification	Male	Female	Total
General Paralysis of the Insane	25	1	26
Syphilis of Central Nervous System	3	1	3
Schizophrenia (All Categories)	793	382	1175
Manic Depressive (All Categories)	52	74	126
Involutional Melancholia	23	36	59
Paranoia and Paranoid States	50	39	89
Senile Psychosis	48	79	127
Pre-Senile Psychosis	13	13	26
Psychosis with Cerebral Arteriosclerosis	96	70	166
Alcoholic Psychosis	35	10	45
Psychosis of Other Demonstrable Etiology	59	38	97
Other and Unspecified Psychoses	30	26	56
Anxiety Reaction	8	13	21
Hysterical Reaction		2	
Obsessive-Compulsive Reaction	1	$\tilde{2}$	2 3
Neurotic Depressive Reaction	15	16	31
Psychoneurosis with Somatic Symptoms			
(Somatization Reaction) Affecting			
Circulatory System	_		
Other and Unspecified Psychoneurotic			
Reactions Pathological Personality (All Categories)	9	22	31
Pathological Personality (All Categories)	32	14	46
Immature Personality	5	9	14
Alcoholism Without Psychosis	69	8	77
Other Drug Addiction	2	_	2 2
Primary Childhood Behaviour Disorders	2		
Mental Deficiency Without Psychosis	39	22	61
Other and Unspecified Disorders of	_	_	_
Character, Behaviour and Intelligence	2	7	9
Paralysis Agitans	-	1	1
Epilepsy Puerperal Psychosis	16	$\frac{10}{2}$	26
Puerperal Psychosis	2	2	2 2
Other Diseases of Brain	4	_	2
Psychiatric Care	13	12	25
Nervousness and Debility	19	1	1
Other Non-Psychiatric Conditions	13	24	37
Other Won-Fsychiatric Conditions	10	27.1	
TOTALS	1455	933	2388
101120			

TABULATED SUMMARY OF DEATHS IN INSTITUTIONS

	Po	A.H., Ponoka		A. Edr	A.H., Edmonton	no	A. Clar	A.H. Claresholm	ılm	A. Ray	A.H., Raymond		Rose	Rosehaven, Camrose	e, u	A. S Red	A.S.H., Red Deer		Deerhome, Red Deer	ome		TOTAL	ALS	
DISEASE	Z	Ĺ	L	M	Ĺτη	H	M	দ	T	M	ĹΉ	H	M	[고	Ţ	M	ÍT4	H	M		T	M	Ĺī,	H
Neoplasms malignant	rI	ı	-	9	4	10	ı	1	1	I	-		4	1	4	ı	1	1	1	-	<u></u>	-	2	18
Vascular diseases affecting central nervous system	4	2	9	00	p(	6	1	5	rO.	4	ı	ı	6	4	13		1	-		ı	1 2	23	12	35
Arteriosclerotic and degen- erative heart disease	00	7	10	7	4	11	ı	3	3	ı	П	~	20	17	37	1	ı	1	2	7	4 3			99
Other diseases of the heart Hydrocephalus	13	9 -	19	1 1	r 3	n 1	1 1	1 1	1 1	f 1	1 1	1 1	1 1	1 1	1 1	1 4,		1 rV	1 1	t 1	1 1		5 -1	27
Pneumonia Gastritis	22	10	32	14	10	24	l I	7 1	2 -	1 1			26	6 1	35	2 -	1	m 1	4 1	4 1	9 8 1	00 I	36 10	04
Gastrostaxis Cirrhosis of the liver	1 1	1 1	1 1	1 1	1 1	1 1	- 1	1 1	- I	1 1	1 1	1 1		1 1	1	1 1	1 1	1 1	1 1	1 1	1 1		1 1	~ ~
Epilepsy	ı	ŧ	1	1	1	1	1	1	1	1	ı	1	1	ŧ	1			2	ı	1	1			2
Nephritis and nephrosis	1	ı	ı	-	2	3	1	à.	ı	1	ı	1	1	1	ı	l r	-		1	ı	1		~	4 -
Thyrotoxicosis Septicemia	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	<b>⊣</b> 1			1 1	1 1	1 1	- I	٠	
Aspiration of vomitus	1	1	1	t	1	1	ı	1	1	ě	í	i .	ı	ı	ı	7	-	3	ı	1	1	2		3
psychosis, ill-defined and unknown causes	1	1	1	11	9	17	1	ı	ı	1	ı	1	1	1	1	1	1	1	1	ı		11	9	17
All other diseases classified as infective and parasitic	1	1	ı	1	1	1	1		ı	ı		1	1		П	ı	ı		- 1	1		-		2
All other accidents, including burns	1	1	1	-	2	3	- 1	ı	1	1	ı	1	i	ı	- 4	ı	- 1	1	ı	1	1	-	2	3
Suicide and self-inflicted injury, including effects																								
of injuries Other diseases of muscle	ı	t	1	-	1	_	1	1	1	4	1	4	-	1	1	1	1	1	1	1	1		1	-
tendon and fascia	1	ı	'	1	1	ı	A	1	ı	1	í	1	1	1	1	1	-		1	1	1	1	-	-
All other diseases	8	8	9	4	3	7	I.	1	4	1	1	1	1	1	. 1	1	1	1	1	1	1	∞	9	14
GRAND TOTALS	51	23	74	53	35	88	1	1.1	12	1	3	3	09	31	91	11	2	18	6	7	16 18	85 1	17 3	302

Note: Linden House - Unit for Emotionally Disturbed Children - No deaths.

TABLE 6
AGES ON ADMISSION
ALBERTA HOSPITAL, EDMONTON
ALBERTA HOSPITAL, PONOKA

	First	Admis	sions	Re-A	dmiss	sions		Total		
AGES	М	F	Т	М	F	Т	М	F	Т	%
Under 15 years 15 - 19 years 20 - 24 years 25 - 29 years	9 85 121 90	16 73 89 54	25 158 210 144	1 27 82 111	2 26 59 84	3 53 141 195	10 112 203 201	18 99 148 138	28 211 351 339	. 8 6. 1 10. 1 9. 8
30 - 34 years 35 - 39 years 40 - 44 years 45 - 49 years 50 - 54 years 55 - 59 years	116 120 105 103 70 64	73 50 61 42 35 31	189 170 166 145 105	103 155 170 118 116 68	94 91 102 56 65 41	197 246 272 174 181 109	219 275 275 221 186 132	167 141 163 98 100 72	386 416 438 319 286 204	11.1 12.0 12.6 9.2 8.2 5.9
60 - 64 years 65 - 69 years 70 & over	41 29 96	28 23 87	69 52 183	50 23 38	34 16 <b>3</b> 1	84 39 69	91 52 134	62 39 118	153 91 252	4. 4 2. 6 7. 7
TOTAL	1,049	662	1,711	1,062	701	1,763	2,111	1,363	3,474	100.0

ALBERTA HOSPITAL, PONOKA J. M. Byers, M.Sc., M.D., Spec. Psych. Med. (Alta.) Cert. M.H.A. (A.P.A.), Medical Superintendent

#### PATIENT POPULATION CHANGES

There were 1,029 patients in residence on January 1st, 1967 of whom 691 were male and 338 female. On December 31st, 1967, 960 were in residence of whom 600 were male and 360 female.

#### ADMISSION OF PATIENTS

Exclusive of patients transferred from other psychiatric facilities, there were 1,241 admissions during the year. Of these 725 were male and 516 female. This represented a decrease of 181 admissions as compared with 1966.

Seventy-two patients were received by transfer from

other provincial psychiatric facilities.

Of the patients admitted during the year, 210 were changed from Certificate to voluntary status, and Certificates of Detention were written on 13 patients who had been admitted voluntarily.

#### **SEPARATION OF PATIENTS**

One thousand two hundred and eighty patients were discharged, of whom 789 were male and 491 female.

Fifty-eight patients were transferred to other psychiatric facilities in the province.

There were 74 deaths.

Details regarding patient movement are shown in Table 1.

#### **ACCIDENTS AND ELOPEMENTS**

Eighteen patients suffered fractures, eight men and ten women. Those with fractures of the femur, of which there were four, were transferred to the Red Deer General Hospital for surgical treatment. There were no suicides.

Fifty-eight men and 15 women left the hospital without permission.

#### GENERAL HEALTH OF PATIENTS

There were no epidemics during the year and the health of the patients was generally good.

Thirty-seven referrals, 29 men and eight women were made to the Cancer Clinic for diagnosis and treatment.

Four patients were transferred to the Alberta Hospital, Edmonton, for treatment of Pulmonary Tuberculosis.

#### **CLINICAL WORK**

Although fewer patients were admitted, there was no appreciable diminution of the clinical work load from the previous year. The use of group therapy as a means of treatment was expanded. Individual psychotherapy, electroshock treatment and drugs were used quite extensively.

The industrial therapy program continued to grow, and on four wards a variety of articles was manufactured under contract from businesses in different parts of the province. Patients doing the work received a nominal remuneration on a piece basis.

Occupational therapy classes were held in the main Occupational Therapy studio as well as in other areas of the hospital. An average of 115 patients attended classes each day.

One hundred and two patients, 96 men and six women were treated in the Alcohol Treatment program.

The physically ill were treated, for the most part, by a group of private Medical Practitioners from the Town of Ponoka. Operative procedures, both emergency and elective, were carried out by this group.

The services of Specialists in various fields of Medicine from Edmonton and Red Deer were used to aid in diagnosis and to carry out special surgical procedures.

The After-Care Clinic operated throughout the year at the Foothills Hospital in Calgary. The work load of this Clinic continued to increase and provided a useful service to patients discharged from this hospital to Calgary and district.

One hundred and twenty-two electroencephalographic tracings were made here, and interpreted by Neurologists at the University of Alberta Hospital, Edmonton.

The Guidance Clinic team from this hospital gave service, when requested, to a limited area in the central part of the province.

One of the physicians at this hospital reserved one afternoon a week in order to see Out-patients. Frequently Out-patients arrived without appointment, and any available physician was called upon to see them so that during the year, all the physicians did some out-patient work.

#### RECREATIONAL THERAPY

The Recreation Department was kept busy providing recreational activities and entertainment, which throughout the year, involved almost the entire patient population.

Many picnics were held at nearby recreational areas. Chartered bus trips were made to the Alberta Game Farm, the Shrine Circus, Klondike Days Parade and Ice Capades in Edmonton. In addition, many motion pictures were shown and dances and athletic events were held at the hospital.

Under the direction of the Recreation Department, an area of ground on the hospital site was laid out as a park and equipped with various recreational facilities, such as a dance floor, barbecue pit, etc. This park is known as "Centennial Park" and the idea for it was fostered and carried out by members of the Patients' Council. Most of the actual work in preparing the park was done by patients.

#### **RELIGIOUS SERVICES**

Members of the Clergy from the Town of Ponoka showed much interest in the welfare of the patients. As well as conducting regular services at the hospital, they made frequent visits to individual patients and took part in conferences and group activities. In addition, quite a number of patients attended Church services in the Town of Ponoka.

#### SOCIAL SERVICES – SOCIAL WORKERS

The Social Service Department was staffed by six Social Workers, four of whom have B.A. Degrees, and the other two are Registered Psychiatric Nurses.

Three of the Social Workers were located at the After-Care Clinic at the Foothills Hospital in Calgary. This department had an active year, much of the time being spent in after-care visits, in investigating foster homes and assisting in the placement of patients in foster homes.

During the year, 51 patients, 29 women and 22 men were placed in foster homes in Calgary, Red Deer and Ponoka.

Fourteen men were placed in "Roberts House" in

Calgary, and one woman was placed in "Imrie House" in Edmonton.

Fifty-three patients were placed in Nursing Homes and four in Senior Citizens Lodges.

#### PSYCHOLIGICAL SERVICES – PSYCHOLOGISTS

The senior Psychologist was given leave of absence, as of September 1st, to attend University to work towards her Doctoral Degree. The remainder of the staff, one with an M.A. and four with B.A. qualifications, were kept busy in the administration of psychological tests, taking part in group therapy and lecturing to Student Nurses.

#### **VOLUNTEER SERVICES**

Many volunteer groups continued to take an interest in the welfare of the patients.

The Women's Hospital Auxiliary operated the Apparel Shop and provided social activities involving, for the most part, patients on continued treatment wards.

The Canadian Mental Health Association — Calgary Branch sponsored regular bus trips to the hospital, bringing residents of Calgary and district to visit friends and relatives.

A patient-relative Christmas party was held at the hospital in co-operation with the Canadian Mental Health Association — Calgary Branch. Other groups and individuals made many contributions to the welfare and entertainment of the patients.

#### DENTAL SERVICES

The Dentist who had been on the staff since June 1st, 1960, went on sick leave early in June and did not return to work. He retired on October 4th, 1967. A full-time Dentist was engaged on September 1st.

During the year, over 2,400 dental examinations were made, and in addition, more than 2,300 dental procedures were performed. These consisted of extractions, repairs, fitting dentures, fillings and prophylactic treatments.

#### X-RAY SERVICES

The two Technicians staffing this department took more than 4,000 X-rays during the year. All chest plates, as usual, were sent to the Baker Memorial Sanatorium in Calgary for interpretation. Other plates were interpreted by Radiological Specialists in Edmonton and Red Deer, when considered necessary.

#### LABORATORY

The Laboratory was staffed by one Technician and received some assistance from a member of the Medical staff.

More than 10,000 routine laboratory tests were carried out, such as blood counts, urinalyses, and blood chemistry examinations. In addition, the Laboratory was responsible for doing one hundred and twenty-two electrocardiograms and five basal metabolic rates. Three autopsies were performed.

#### **PHARMACY**

The work of the Pharmacy increased, due to the growing demand for drugs by former patients. Despite the heavy work load, the Pharmacy operated very efficiently.

#### MEDICAL EDUCATION

Three members of the Medical staff were in the Psychiatric training program leading to Certification by the Royal College of Physicians and Surgeons.

The Medical staff formed a Journal Club which met once a week to review current articles in the medical periodicals.

Two members of the Medical staff attended the Canadian Psychiatric Association Meeting in Quebec City.

The final year Medical Students from the University of Alberta spent time here in rotation as part of their psychiatric training program.

#### SCHOOL OF NURSING

(1) Four-Year Combined General and

The School of Nursing gave instruction to a total of 556 persons, made up as follows:

	Psychiatric Nursing Course	39
(2)	Three-Year Psychiatric Nursing Course	54
(3)	Post-Basic Course for Registered Nurses	3
(4)	Eight-Week Affiliation Course	234
(5)	Public Health Students from the	
	University of Saskatchewan	6
(6)	Nursing Aides, Ward Aides and	
, ,	Institutional Attendants	220

Nine graduated in the Four-Year General and Psychiatric Nursing Course.

Seven graduated in the Three-Year Psychiatric Nursing Course.

The Associate Director of Nursing Education was given leave of absence in September to continue her studies leading to a Master's Degree.

The staff of the School of Nursing consisted of the Director of Nursing, the Associate Director of Nursing and

14 Instructors.

The Three-Year Psychiatric Nursing Course was opened to women for the September enrolment. Fifteen of our Ward Aide staff, one Certified Nursing Aide and one Recreational Therapist Assistant transferred to the Course.

#### NURSING SERVICES

The standard of nursing care remained at a high level, and the patients responded favourably to the nursing care they received.

Members of the Nursing staff took advantage of furthering their education by attendance at Workshops and

Forty-nine members of the Nursing staff attended "The Program to Develop Management Skills", which was presented by the Training Co-ordinator, Personnel Administration Office of the Government of Alberta.

In-service education programs were carried on throughout the year.

The immunization and tuberculosis control program started in 1966 continued to function well.

#### VISITORS TO THE HOSPITAL

The Director and Assistant Director of the Division of Mental Health were frequent visitors. The Honourable the Minister of Health visited on several occasions.

The Board of Visitors appointed to visit the Alberta Hospitals came in October.

Many groups of visitors who came to the hospital, were entertained by talks given by one or more members of the staff, and were taken on tours of the buildings.

#### THE EUGENICS BOARD OF ALBERTA

The Eugenics Board held one meeting at this hospital. Two female patients were presented. One was passed with the consent of the patient and one was deferred. One operation for sterilization was performed on a male who had been passed by The Eugenics Board in the previous year.

#### **REVIEW PANEL**

The Review Panel held eight meetings at the hospital and dealt with a total of 30 complaints from 28 patients -13 men and 15 women. The Review Panel decided that the issuance of the certificates was warranted in all cases but that three should now be revoked. Two patients complained twice on separate certificates.

#### SURGICAL SERVICES

A total of 95 operations - 26 major and 69 minor were performed at this hospital, during the year by Surgeons from Ponoka, Red Deer and Edmonton. In addition, a few patients were transferred to Red Deer and Edmonton for special surgical procedures.

#### HOUSEKEEPING DEPARTMENT

This department continued to function efficiently keeping the interior of the buildings clean and attractive.

#### DIETARY DEPARTMENT

This department continued to give good food service to the patients and staff who have their meals at the hospital. Pre-planned menus permitted a better system of ordering food supplies. A greater variety and larger quantity of vegetables were available from the gardens.

#### FIRE PROTECTION

Regular fire practices were held. The buildings and fire fighting equipment were inspected regularly.

The Fire Department responded to eight alarms, five of which were false; of the three fires which did occur, only one was of a serious nature and this resulted in the total destruction of a dormitory building known as "Vista Lodge". The patients were all removed quickly and dispersed to other parts of the hospital. There were no injuries.

#### **NEW BUILDINGS AND EQUIPMENT**

With the exception of replacing a root house which had burned down several years previously, no new buildings were completed during the year.

New equipment was installed such as a dish washer, three electrically cooled drinking fountains, air changing and exhaust fans and fluorescent lights in several wards.

#### **BUSINESS OFFICE**

The Business Office carried out its usual duties with efficiency and in close liaison with medical administration.

#### THE DEPARTMENT OF PUBLIC WORKS

Maintenance Department

The buildings were well maintained. Considerable renovation was carried out on the wards; exit doors and stairways for fire escapes were installed on male ward 12 and in the baking and kitchen areas.

One residence on the grounds was completely renovated. Alterations were made to another house.

#### Mechanical Branch

Power plant operations were uneventful except for two incidents. A generator was made unserviceable for a week due to a lightning strike on the power distribution system. At "Spruce Lodge" the electrical distribution system was out of service for two hours, as the result of a power pole being knocked down by a car.

This department produced 96 per cent of the total

power consumed at the hospital.

#### CONCLUSION

The admission rate decreased perceptibly during the year. The reason for this is not fully known, but the decrease in re-admissions may be due, in part, to the work of the After-Care Clinic in Calgary. Some patients who would ordinarily have returned to the hospital were no doubt being treated there, thus obviating their re-admission.

Thanks is extended to the Honourable the Minister of Health, the Deputy Minister of Health, the Director and Assistant Director of the Division of Mental Health, as well as to the other executives in the Health Department for

their assistance and advice.

TABLE 1
ALBERTA HOSPITAL, PONOKA
MOVEMENT OF PATIENT POPULATION

	1/10	V DILLDIVI	01 1411				Male	Female	Total
Patients on Books at Decemb	er 31,	1966					740	386	1126
ADMISSIONS	M	F	T	M	F	T			
First Admissions: Section 5 Section 6 Section 7	48	94 153 18	232 308 66						
Section 8	2  22 12	1 4 —	3 26 12			0.45			
				377	270	647			
Re-Admissions:     Section 5     Section 6     Section 7     Section 8     Section 9(1)(a)     Section 9(1)(b)     Section 9a	198 91 39 — 9	124 97 24 — 1	322 188 63 — 10 11						
Transfers In:				348 28 —	246 44 —	594 72 —	753 1493	560 946	1313
SEPARATIONS									
Discharges:  As recovered As much improved As improved As unchanged As not Psychotic  Deaths: Transfers Out	198 26 321			789 51 20	491 23 38	1280 74 58			
					_		860	552	1412
							633	394	1027
On the Books December 31, In Residence December 31, On Leave or Otherwise Abso	1967					************	633 600 33	394 360 34	1027 960 67

TABLE 2

ALBERTA HOSPITAL, PONOKA
FIRST ADMISSIONS BY DIAGNOSIS

TABLE 3 ALBERTA HOSPITAL, PONOKA READMISSIONS BY DIAGNOSIS

THE STATE OF THE PARTY OF THE P	Dillialio	010		READMISSIONS BY DIA	AGNOSIS	5	
Diagnostic Classification	Male	Female	Total	Diagnostic Classification	Male	Female	Total
General Paralysis of the Insane	1	_	1	General Paralysis of the Insane		r cinale	Iotai
Syphilis of Central Nervous System				Cuphilia of Control Name		-	_
Schizophrenia (All Categories)	66	45	111	Syphilis of Central Nervous System			
Manic Depressive (All Categories)	11	6	17	Schizophrenia (All Categories)	124	95	219
Involutional Melancholia	3	5	8	Manic Depressive (All Categories)	31	17	48
Paranoia and Paranoid States	11	10	21	Involutional Melancholia	3	12	15
Senile Psychosis	16	20		Paranoia and Paranoid States		11	16
Pre-Senile Psychosis	4	20	36	Senile Psychosis	3	2	5
Psychosis with Cerebral Arteriosclerosis	26	23	6	Pre-Senile Psychosis		_	-
Alcoholic Psychosis	22		49	Psychosis with Cerebral Arteriosclerosis	5	1	6
Psychosis of Other Demonstrable Etiology		3	25	Alcoholic Psychosis	22	6	28
Other and Unerceified Develope Ethology.	11	6	17	Psychosis of Other Demonstrable Etiology	7	6	13
Other and Unspecified Psychoses	2	6	8	Other and Unspecified Psychoses	7	7	14
Anxiety Reaction	4	8	12	Anxiety Reaction	8	7	15
Hysterical Reaction	-	2	2	Hysterical Reaction	_	3	3
Obsessive-Compulsive Reaction	_			Obsessive-Compulsive Reaction	Mine		
Neurotic Depressive Reaction	16	56	72	Neurotic Depressive Reaction	19	23	42
Psychoneurosis with Somatic Symptoms				Psychoneurosis with Somatic Symptoms	10		2.49
(Somatization Reaction) Affecting				(Somatization Reaction) Affecting			
Circulatory System	-			Circulatory System	_		
Other and Unspecified Psychoneurotic				Other and Unspecified Psychoneurotic			
Reactions	9	7	16	Reactions	4	15	19
Pathological Personality (All Categories)	56	15	71	Pathological Personality (All Categories)	28	10	38
Immature Personality	14	21	35	Immature Personality	6	12	18
Alcoholism Without Psychosis	78	10	88	Alcoholism Without Psychosis	57	5	62
Other Drug Addiction	1		1	Other Drug Addiction	2	J	3
Primary Childhood Behaviour Disorders				Primary Childhood Behaviour Disorders	2	1	3
Mental Deficiency Without Psychosis	11	6	17	Montal Deficiency Without Developing		5	13
Other and Unspecified Disorders of	11	O	Τ1	Mental Deficiency Without Psychosis Other and Unspecified Disorders of	8	Э	13
Character, Behaviour and Intelligence	7	14	21	Character Beleviers of Testalline	4		0
Paralysis Agitans		<u></u>	21	Character, Behaviour and Intelligence	4	4	8
Epilepsy	4	3	7	Paralysis Agitans		_	_
Puerperal Psychosis				Epilepsy	4	3	7
Other Diseases of Brain		2	2	Puerperal Psychosis		1	1
Mental Observation Without Need for		_	_	Other Diseases of Brain	_		_
Penal Observation without Need for				Mental Observation Without Need for			
Psychiatric Care	4	_	4	Psychiatric Care	1	_	1
Nervousness and Debility	_	-	_	Nervousness and Debility	_		-
Other Non-Psychiatric Conditions	_	_	_	Other Non-Psychiatric Conditions	_	_	
TOTALC	0.77		0.45				
TOTALS	377	270	647	TOTALS	348	246	594

TABLE 4

ALBERTA HOSPITAL, PONOKA
DIAGNOSIS OF PATIENTS ON BOOKS, DECEMBER 31, 1967

DIAGNISIS OF PATIENTS ON BOOKS,	, DECE	MIDIAL OX,	1001
Diagnostic Classification	Male	Female	
General Paralysis of the Insane	20	—	20
Syphilis of Central Nervous System	2	_	2
Schizophrenia (All Categories)	350	177	527
Manic Depressive (All Categories)	31	25	56
Involutional Melancholia	10	10	20
Paranoia and Paranoid States	27	26	53
Senile Psychosis	16	31	47
Pre-Senile Psychosis	6	5	11
Psychosis with Cerebral Arteriosclerosis	28	24	52
Alcoholic Psychosis	21	4	25
Psychosis of Other Demonstrable Etiology.	27	20	47
Other and Unspecified Psychoses	21	13	34
Anxiety Reaction	5	8	13
Urretorical Reaction	_	ĭ	1
Obsessive-Compulsive Reaction	_		
Neurotic Depressive Reaction	7	10	17
Psychoneurosis with Somatic Symptoms			
(Somatization Reaction) Affecting			
Circulatory System			_
Other and Unspecified Psychoneurotic			
Reactions	3	8	11
Pathological Personality (All Categories)	11	8 7 4	18
	3	4	7
Alcoholism Without Psychosis	17	4	21
Other Drug Addiction	1		1
Other Drug Addiction	_		
Mental Deficiency Without Psychosis	15	5	20
Other and Unspecified Disorders of			
Character, Behaviour and Intelligence	2	5	7
Paralysis Agitans		_	
Epilepsy	6	4	10
Puerperal Psychosis		2	2
Other Diseases of Brain			_
Mental Observation Without Need for			
Parabiotria Care	3	_	3
Psychiatric Care	_		
Other Non-Psychiatric Conditions	1	1	2
Other Hon-I Sychiatric Containing			
TOTALS	633	394	1027
TOTALS			

TABLE 5 ALBERTA HOSPITAL, PONOKA AGE OF PATIENTS ON ADMISSION

			AGE OF	LILLI		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		**				
AGES	FIRST	ADMIS	SIONS	REAL	DMISSI	ONS	TR.	ANSFE	RS		TOTAL	
	M	F	т	M	F	T	M	F	T	M	F	T
Under 15 years	3	4	7	1		1				4	4	8
15 to 19 years		31	66	14	6	20	1	4	5	50	41	91
20 to 24 years		34	88	25	16	41	3		3	82	50	132
25 to 29 years		22	57	46	22	68	_	1	1	81	45 49	126 128
30 to 34 years	39	25	64	40	24	64			3	79 81	49	130
35 to 39 years		21	58	43	26 40	69 78	1	2	3	67	71	138
40 to 44 years		28 13	57 45	38 36	27	63	3	5 5	8	71	45	116
45 to 49 years 50 to 54 years		19	45	40	21	61	3	6	9	69	46	115
50 to 54 years 55 to 59 years		12	35	23	23	46	ĭ	9	10	47	44	91
60 to 64 years	40	14	26	17	22	39	4	9	13	33	45	78
65 to 69 years		10	21	13	7	20	7	3	10	31	20	51
70 and over		37	78	12	12	24	5	2	7	58	51	109
										750	F.C.O.	1313
TOTAL	377	270	647	348	246	594	28	44	72	753	560	1919
				-			-					

TABLE 6
ALBERTA HOSPITAL, PONOKA
DISCHARGES BY DIAGNOSIS AND CONDITION ON DISCHARGE

	Rec	overe	d	Much	Impro	oved	Imp	roved			anged		Т	otal	
DIAGNOSIS	М	F	Т	М	F	Т	M	F	Т	М	F	T	М	F	Т
General paralysis of the insane	-	- 1	-	-	-	+	-	-	_	-	-	-	-	-	-
Syphilis of central nervous system	-				- /	- 1	-	32	1.20	12	4	16	238	148	386
Schizophrenia (all categories)	58	36	94	71	76 3	147	97 12	6	129 18	2	4	2	43	27	70
Manic depressive (all categories)	19	18	37 7	10	9	13 11	12	3	4	_	_	_	5	17	22
Involutional melancholia		5	(	2	7	11	1	,	7						
Paranoia and paranoid states	-	-	-	6	12	18	15	11	26	2	1	3 7	23 10	24	47 18
Senile psychosis	-	-	-	-	1 1	1	7	3	10	3 1	4	2	2	2	4
Pre-senile psychosis	-	-	-	-	1	1	1	-	1	1	1		6		- 4
Psychosis with cerebral			_		1	1	14	3	17	1	1	2	15	5	20
arteriosclerosis	37	9	46	1	i	2	3	1	4	_	_	_	41	11	52
Alcoholic psychosis	) )	7	10	1	1				*	_			1.	11	32
Psychosis of other demonstrable			,							,		,	1.7	1.0	20
etiology	2	4	6	4	4	8	10	4	14	1	3	1 3	17	12	29 26
Other and unspecified psychoses	5	3	8 5	4	6	10	1 5	4 8	5 13	-	1	1	12	12	24
Anxiety reaction		2 2	2	_	1	1	- -	1	13	-	1	1	12	4	4
Hysterical reaction	-	_	_	2	1	2		_	1	_	_	-	2	-	2
Obsessive-compulsive reaction	-	-	-	2	_		_	_	_	_	_	_		_	
Neurotic depressive reaction	10	24	34	3	29	32	21	19	40	3	3	6	37	75	112
Psychoneurosis with somatic															
symptoms (somatization															
reaction) affecting circulatory											1				}
system	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other and unspecified psycho- neurotic reactions		1	1	1	11	12	11	7	18	1	3	4	13	22	35
Pathological personality (all	-	1	1	1	1 1	1 12	11	'	10	1		1	1 1 2		
categories)	l .	_	_	_	_	_	_	_	_	94	26	120	94	26	120
Immature personality	_	-	_	_	_	_	_	-	_	20	36	56	20	36	56
Alcoholism without psychosis	-	-	-	-	-	-	-	-	-	156	12	168	156	12	168
Other drug addiction	-	-	-	-	-	-	-	-	-	2	1	3	2	1	3
Primary childhood behaviour disorders			_					_							
Mental deficiency without	-	_	1 -	_	-	-	-	-	-	_	-	-	-	-	_
psychosis			_				_	_	_	13	111	24	13	11	24
Other and unspecified disorders									_	1 3	11	21	15	1 1	2.1
of character, behaviour and															
intelligence	-	-	-	-	-	-	-	-	-	16	14	30	16	14	30
Demolocie e de	:														
Paralysis agitans Epilepsy			-		_	_	_	_	-	11	6	17	11	6	17.
Puerperal psychosis	1 -	-	_	_	_	_		_	_	11	2	2		2	2
Other diseases of brain		_	_	_	_	_	_	_				2	_	_	2
Mental observation without need															
for psychiatric care	-	-	-	-	-	-	-	-	-	9	-	9	9	-	9
Nervousness and debility	_	_	_	_	_	_	_								
Other non-psychiatric conditions	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_
TOTALS	136	104	240	108	156	264	100	100	200	2.45	1.00	1.00			
TOTALS	136	104	240	108	156	264	198	102	300	347	129	476	789	491	1,280

TABLE 7
ALBERTA HOSPITAL, PONOKA
DISCHARGES SHOWING DURATION OF RESIDENCE IN HOSPITAL

	Und	Under 3 m	mos.	Under	eom 9		Under 9	mos.	D	Under 1	12 mos.	Un	Under 2	yrs.	Over	2	yrs.		Total	
DIAGNOSIS	M	Įτί	T	M	Ĺη	T	M	FT		M	T	M	ഥ	H	Z	Íų	T	Σ	[14	T
General paralysis of the insane Syphilis of central nervous system Schizophrenia (all otagories) Manic depressive (all categories) Involutional melancholia	105	- 77 17 15	182 47 18	1 2 8 1	- 5 - 2 - 2 - 2	87 114 3	1 2 1	2 2 2	24-1	11611	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100	10	20 - 1	1 + 8 0 1	15	+ 1 80 70 1	238 43	148 27 17	386
Paranoia and paranoid states Senile psychosis Pre-senile psychosis Psychosis with cerebral arteriosclerosis Alcoholic psychosis	11 2 5 8	15	26	22129	ω- ı-4	33	e 1 1 1 1	2 2	22 + 12	12122	11 2 1	1 2 1 2 1	1 5 1 1 1	16041	0 1 1 1 1	4. 1 1 1 1	13	23 10 2 2 15 41	24 8 2 11	47 18 20 52 52
Psychosis of other demonstrable etiology Other and unspecified psychoses Anxiety reaction Hysterical reaction Obsessive-compulsive reaction	10	111 3	118	2 - 2	8 1 2 1 1	2 - 6 - 1	1 1 1 1	ed [ ] [ ]		1 1 1 1 1	1 - 1 1 1	1 1 1 1 3		44111	1 1 1 2	8 - 1 - 1	1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 10 12 - 2	16 16 4	29 26 24 24 24 24
Neurotic depressive reaction Psychoneurosis with somatic symptoms (somatization reaction) affecting circulatory system Other and unspecified psychoneurotic reactions Pathological personality (all categories) Immature personality	29	61 - 19 18 31	90 29 97 51	1131	12 - 12 - 2 - 2	118	1 11-1	1 11-2	1 1122	1 111	- 11	2 1 1 2 1	- 111-	777	1 11-1	1 - 1 - 1 - 1	1 1991	37	75 22 25 36 36	112 35 120 56
Alcoholism without psychosis Other drug addiction Primary childhood behaviour disorders Mental deficiency without psychosis Other and unspecified disorders of character, behaviour and intelligence	1 1 1 1 9	10 - 12	154	5 11 6	2 - 1 2 2	81.8 4	2	1110	2 2 2				1 1 1 1	1114 4		1 1 1 1 1 1		156 2 2 1- 13	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	168 3 24 24 30
Paralysis agitans Epilepsy Verperal psychosis Other diseases of brain Mental observation without need for psychiatric care	1.01100	14-11	101	12111	1 1 1 1	IM I I I	1 1 1 1 1	1 1 1 1 1		1 1 1 1 1		10110	1 1 1 1 1	1 - 1 1 -	12111	1 1 1 1 1	12111	111	19811	17.
Nervousness and debility Other non-psychiatric conditions	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1			1 1	2 1	( )	1 1	1 1	1 1	1 1	1 1	1 1	1 1
TOTALS	533	326	859	124	80	204	25 2	23 48		6 16	5 31	27	21	48	64	26	06	789	491	1,280

## TABLE 8 ALBERTA HOSPITAL, PONOKA CAUSES OF DEATH

01100110 01 01111			
CLASSIFICATION	Male	Female	Totals
Malignant Neoplasms	1	_	1 6
Vascula: Lesions Affecting C.N.S	4	2	0
Heart Disease	8	2	10
Other Diseases of the Heart	13	6	19
Pneumonia	22	10	32
All other Diseases	3	3	6
	F-1	23	74
TOTALS	51	23	1-2

## TABLE 9 ALBERTA HOSPITAL, PONOKA DEATHS BY DIAGNOSIS

	Male	Female	Totals
General Paresis	1	_	1
Schizophrenia	9	1	10
Manic Depressive	1	1	2
Involutional Psychosis	3		2
Paranoid Conditions		1	4
Senile Psychosis	14	6	20
Pre-senile Psychosis	7.0	1	1
Psychosis with Cerebral Arteriosclerosis	12	10	22
Alcoholic Psychosis	1	_	1
Psychosis of Other Demonstrable Etiology	4	2	6
Reactive Depression	1		1
Pathological Personality	1	_	1
Alcoholism Without Psychosis	4	<del></del>	2
Mental Deficiency		1	1
	20" 10"		F7.4
TOTALS	51	23	74
		_	

# ALBERTA HOSPITAL, EDMONTON J. L. Paterson, M.D., Spec. Psych., R.C.P.S. (C), Medical Superintendent

#### PATIENT POPULATION CHANGES

On December 31, 1966, there were in residence 881 men and 589 women patients, a total of 1,470. The number in residence December 31, 1967, was 707 men and 434 women, a total of 1,141. There were 220 patients on leave or otherwise absent compared to 217 on leave or otherwise absent in 1966. The total patient population in residence and on leave or otherwise absent on December 31, 1967, was 1,361. This was a decrease of 109 from the previous year.

During the year the following changes were made in the Modes of Admission: 15 patients, admitted voluntarily, had to be certified; and 252 patients, admitted by Medical Certificates, signed Voluntary Forms.

#### ADMISSION OF PATIENTS

During the year 1,386 men and 847 women were admitted, for a total of 2,233. In addition, 17 men and nine women were transferred from different mental institutions in the Province, making a total of 1,403 men and 856 women admitted. A combined total of 2,259 patients were admitted during the year representing an increase of seven percent over the preceding year. One thousand three hundred and forty-nine admissions were by Voluntary application, 604 were by Medical Certificates, 80 were under Section 8 of The Mental Health Act, 128 were on Remand, 55 were admitted on transfer from Fort Saskatchewan Gaol, 6 were under Warrant from the Northwest Territories, five were under The Indian Act, and six were under The Tuberculosis Act. Two hundred and four admissions were in the Geriatric group.

#### SEPARATION OF PATIENTS

During the year 1,343 men and 806 women, a total of 2,149 were discharged. This was an increase of 295 over the previous year. In addition 66 men and 65 women, a total of 131 were transferred to other mental institutions. There were 88 deaths. Twenty-three autopsies were performed. The total number of separations was 2,368. Details regarding patient movement are shown in Table 1.

#### **REVIEW PANEL**

The Review Panel held 13 meetings at the hospital and dealt with a total of 22 complaints from 21 patients — nine men and 12 women. The Review Panel decided in one case that the certificates should not have been issued and in four cases decided that the issuance of the certificates was warranted but should now be revoked. One patient complained twice on separate certificates.

#### **GENERAL HEALTH**

The health of the patients was generally good during the year and there were no epidemics. T.A.B.T. Immunization was carried out on all admissions and new staff. Chest X-Rays were done on all new staff plus a complete re-survey of all patients and staff.

#### CLINICAL WORK

There was a marked increase in the number of admissions and readmissions this year and this put a very heavy clinical work load on the medical, nursing and ancillary staff. The main forms of therapy continued to be Drugs, Individual and Group Therapy, and Electro-Convulsive Therapy with emphasis on Psychotherapy.

The number of alcoholic patients showed a marked rise this year and in order to cope with this situation a treatment team was initiated on one of the wards where the majority of alcoholics were admitted. The program involved Group Therapy and was of one-month's duration. Alcoholics Anonymous and Al-Anon groups continued to hold regular meetings.

Occupational Therapy continued to play an important role. The vacancy for a qualified occupational therapist was filled.

The Medical Staff provided both psychiatric treatment and treatment for physical illnesses. Specialists in various areas were called in from Edmonton as required and on occasion patients were examined in the City or placed in one of the general hospitals.

The private psychiatrists in the City were contacted with a view to joining the hospital staff on a sessional basis. Two private psychiatrists are now attached to the hospital, one five mornings a week and the other two mornings a week. It is hoped that this service will be expanded during the coming year.

The Out-Patient Service continued to expand and consisted largely of discharged patients. In addition to those seen by the Medical Staff, a large number was also seen by the Social Workers.

Continued use was made of the Cancer Clinic for

diagnosis and treatment and a number of patients were transferred from the Alberta Hospital, Ponoka; Rosehaven, Camrose; and Deerhome, Red Deer to this hospital for attendance at the Cancer Clinic and for continued treatment.

Treatment of tuberculosis continued to be successful. All patients in the Division of Mental Health institutions infected with tuberculosis were treated in this hospital. At the end of the year there were 90 patients, 45 men and 45 women, of whom 26 were considered active.

#### OCCUPATIONAL THERAPY

Occupational Therapy continued to function not only in the main Occupational Therapy Department, but also on the wards. Continued expansion occurred throughout the year, particularly in the ward areas. Industrial Therapy functioned well and served as a means of remuneration to the patients. The Crescendo Tea Room employed patients and it was operated by them on a profit-sharing basis. This area proved very successful and expanded its services during the year. A qualified occupational therapist was taken on staff this year and has been in charge of the Occupational Therapy Department.

#### SOCIAL SERVICES

At December 31, 1967, there were six social workers and two psychiatric nurses on staff in this Department.

Expansion of services continued throughout the year with the Foster Home Program functioning well. There were 174 home placements, 147 home investigations, 5,673 patient interviews and 1,429 referrals. The Family Care Program involving Imrie House resulted in 17 placements and of this total three had to be readmitted to the Alberta Hospital, Edmonton.

#### DEPARTMENT OF PSYCHOLOGY

Administration of psychological tests was carried out on as many patients as possible including all referrals. During the year there were 700 patients who received psychological tests. This Department was also active in Group Therapy programs, teaching, and giving lectures to outside organizations.

#### RECREATIONAL PROGRAM

This Department covered all wards and presented a constantly varying program of evening activities for the patients. The Recreational Program involved all types of indoor and outdoor activity. The Department of Veterans Affairs continued to assist throughout the year by providing entertainment and tickets to recreational activities in Edmonton. The Women's Auxiliary of the Canadian Legion also contributed by providing entertainment.

#### **RELIGIOUS SERVICES**

Anglican, Lutheran, Roman Catholic, and United Church services were provided regularly throughout the year. Clergy from various denominations visited at frequent

intervals. The Jewish and Ukrainian Women's Organizations visited regularly. Clergy of all faiths were available and were called when requested.

#### LIBRARY

Three libraries were in operation — Medical, Nursing, and Recreational (Patient). The Recreational Therapy Department provided a travelling library which periodically visited all the wards.

#### BEAUTY PARLOR

This Department continued to be very active and was utilized to capacity.

#### DENTAL SERVICES

There were 2,398 patients examined during the year. All new admissions were examined and a variety of types of treatment were carried out, namely extractions, fillings, and denture work, constituting a total of 3,435 dental procedures.

#### X-RAY SERVICES

During the year 5,848 patients were X-rayed and this included a variety of types of X-Ray examinations. All patients and staff had a yearly chest X-Ray. In addition 482 tuberculin tests were carried out and T.A.B.T. Vaccine was given to 107 new staff. The increasing number of admissions provided much added work for this Department.

#### LABORATORY SERVICES

There were 33,929 separate examinations done with a unit value of 57,000. These included 4,049 tests which were sent out. This Department also assisted in the training program given to technicians from the school operated by the Department of Health. In addition to regular working hours, technicians were on call on a twenty-four hour basis and were called whenever required. Laboratory examinations were of a great variety including biochemistry. The Provincial Laboratory was used for certain examinations.

#### SURGICAL SERVICES

There were 61 major operations, 52 minor operations, 82 other procedures and three application of casts. Most of the surgical work was done by surgeons from Edmonton and was carried out in this hospital. In some cases the surgical services were provided in a general hospital in the City.

#### **ELECTROENCEPHALOGRAPH**

There were 411 E.E.G.'s, 184 E.C.G.'s and 15 Diathermies done during the year.

#### **EUGENICS BOARD**

The Eugenics Board held four meetings at this hospital. A total of 35 cases was presented to the Board. Sixteen of these were first examined at an Alberta

Guidance Clinic. A total of 37 operations was performed.

#### SCHOOL OF NURSING

There were 12 instructional staff including the In-Service Educational Instructress and the Assistant Director of Nursing.

A total of 21 students, 15 women and six men, completed the three-year course in Psychiatric Nursing. At the end of the year there were 103 students divided as follows: 44 first-year students, 32 second-year students and 27 third-year students.

The Affiliation Program for student nurses from five general hospitals was continued. A total of 221 students was given an eight-week course in Psychiatric Nursing throughout the year. The average number of students in attendance on each course was 44. These affiliation students came from the Edmonton General Hospital, Misericordia Hospital, Royal Alexandra Hospital, St. Joseph's General Hospital, Vegreville, and the Archer Memorial Hospital, Lamont.

A refresher course for psychiatric nurse graduates was held. A supervisory training program was given to four groups of nurses and other personnel by the Personnel Administration Officer from Central Personnel. A course in Personnel Administration was given to senior personnel.

A two-day workshop for instructors from the five General Hospital Schools of Nursing was held during the year.

#### **NURSING SERVICE**

Nursing Service continued to operate efficiently with increased integration of male and female staff. Group Therapy Programs involving all levels of ward staff were carried out. Remotivation continued to expand. In-Service Education was provided throughout the year. Additional orientation of new staff was provided.

#### FIRE PROTECTION

Regular fire practices were held and instructions were given throughout the hospital to all new staff. The fire equipment was inspected and was kept at a peak of efficiency.

#### HOUSEKEEPING

This Department continued to function efficiently. The wards were kept comfortable and attractive.

#### LAUNDRY, TAILOR AND SEWING SHOP

Although the laundry was very busy due to the heavy patient load, the work was done efficiently. A total of over 2,000,000 pounds of laundry was done. The sewing and tailoring work continued under the direction of the laundry.

#### DIETARY DEPARTMENT

On December 1, 1967, Versafood Services Ltd. took over the entire food service operation of the hospital including the staff. There has been increased variety in food

provided and the quality has also improved as a result of this operation. In addition to the large number of ordinary meals provided to staff and patients with a daily average population of approximately 2,000, a large number of special diets was required.

#### FORENSIC MEDICINE

There were 128 remands during the year. Various members of the Medical Staff appeared in Court in connection with this work. In addition there was continuation of the consultation work at Fort Saskatchewan Gaol.

#### **BUSINESS OFFICE**

The work of the Business Office continued to expand due to the increased number of admissions and discharges throughout the year. The Business Office carried out its usual duties efficiently and in close liaison with the other hospital departments.

#### MEDICAL RECORDS

The work of the Department continued to increase due to the increased number of admissions and discharges.

#### **GARDENS AND GROUNDS**

The production of the gardens and grounds was very good and there was a vegetable surplus which was utilized at other hospitals within the Department.

#### **NEW BUILDINGS**

An addition to the Administration Building was completed and the Out-Patient Department and additional office space was placed in this addition. Renovations on No. 2 Building were completed and it was initially occupied by male patients until transfers to the Alberta Hospital, Claresholm and the Alberta Hospital, Ponoka were completed. Female patients now occupy the entire building which has an open-door policy throughout. The Farm Dormitory was vacated and is to be demolished.

#### VISITING AND VOLUNTEER PROGRAMS

The following volunteer groups were very active throughout the year: The Canadian Mental Health Association provided the Christmas Bazaar in which gifts were supplied for patients to send to their families and relatives. The attendance at the Bazaar was over 600. Members of the volunteer groups carried out regular programs with patients on a number of wards. The White Cross Centre continued to play an active role with pre-discharged and discharged patients. The Lloydminster Branch of the Canadian Mental Health Association supplied money to take groups of patients to various activities in the Edmonton area. The following Church groups were active in visiting at regular intervals throughout the year: United Church Deaconess and Volunteers, Roman Catholic Women, Reorganized Church of Latter Day Saints, Beth Israel Synagogue, Jasper Place Young Peoples, and Ukrainian Ladies Benevolent Society. Other groups included the Julliard Modelling Club, Montgomery Ladies Auxiliary, Canadian Legion, Strathcona Ladies Auxiliary and the Moose Lodge. Nursing administration provided orientation seminars for the visitors. There was an average of 22 visiting groups per month.

The Open House Program continued with visiting days arranged by each ward at which time friends and relatives could come and enjoy lunch prepared and served by the patients. Visitors were encouraged to go through all parts of the wards.

Frequent groups of visitors such as school and church groups were taken through the hospital and in addition to the visit a discussion group was held in order to provide information and answer questions. These groups were conducted by members of the Nursing, Social Service and Psychology Staff.

During the Christmas and New Year's Season the patients were encouraged to visit their homes and relatives, and sight-seeing tours throughout the City were arranged.

#### **VISITORS**

Dr. P. B. Rose, Deputy Minister of Health, visited and inspected the hospital. The Director and Assistant Director of Mental Health were frequent visitors. The Board of

Visitors carried out its annual inspection.

#### **PUBLIC WORKS**

Maintenance Department: This Department continued to function well.

Mechanical Branch: This Department operated efficiently throughout the year.

#### CONCLUSION

Another year of increased admissions continued to tax the facilities to the limit. The discharge rate remained high so that the total population diminished. The number of voluntary admissions increased and were largely made up of non-psychotic disorders such as alcoholics, neurotics and character disorders. The Review Panel functioned well and provided a chance for patients and relatives to appeal to an independent body. Cordial relations continued to exist between the hospital and the Department of Health.

We wish to conclude by expressing our appreciation to the Minister of Health, Deputy Minister of Health, Director and Assistant Director of the Division of Mental Health, as well as to other personnel in the Health Department.

TABLE 1
ALBERTA HOSPITAL, EDMONTON
MOVEMENT OF PATIENT POPULATION

							Male 881	Female 589	Total 1470
Patients on Books at Decem	ber 31,	1966					881	569	1470
ADMISSIONS	M	F	T	M	F	T			
First Admissions:			wa.						
Section 5	335	195	530 <b>2</b> 35						
Section 6		121 47	135						
Section 7		7	41						
Section 9(1)(a)									
Section 9(1)(b)		12	88						
Section 9a		-	21						
Warrant NWT	2 2	2 2	4						
Indian Act Warrant TB		6	6						
warrant 1B				672	392	1064			
Re-Admissions:									
Section 5	514	305	819						
Section 6		65	103						
Section 7		56	131						
Section 8 Section 9(1)(a)		12	39						
Section 9(1)(b)		13	40						
Section 9a		3	34						
Warrant NWT		_	2						
Indian Act		1	1						
Warrant TB	_	_	_	714	455	1169			
Transfers In:				17	9	26			
Transfers In:							1403	856	2259
							2284	1445	3729
SEPARATIONS									
Discharges:									
As recovered		13	17 91						
As much improved	31	60 582	1683						
As improved	186	139	325						
As not Psychotic	21	12	33						
		_		1343	806	2149			
Deaths:				53	35	88			
Transfers Out:				66	65	131	1462	906	2368
							1462	906	4308
							822	539	1361
On the Books December 31,	1967						822	539	1361
In Decidence December 31	1967						707	434	1141
On Leave or Otherwise Abs	ent						115	105	220

TABLE 2
ALBERTA HOSPITAL, EDMONTON
FIRST ADMISSIONS BY DIAGNOSIS

TABLE 3
ALBERTA HOSPITAL, EDMONTON
READMISSIONS BY DIAGNOSIS

Diagnostic Classification	Male	Female	Total	Diagnostic Classification	Male	Female	Total
General Paralysis of the Insane		_	_	General Paralysis of the Insane	_	-	-
Syphilis of Central Nervous System		_		Syphilis of Central Nervous System	_	1	1
Schizophrenia (All Categories)	121	88	209	Schizophrenia (All Categories)	192	178	370
Manic Depressive (All Categories)	22	28	50	Manic Depressive (All Categories)	29	43	72
Involutional Melancholia	3	10	13	Involutional Melancholia	8	18	26
	4	6	10	Paranoia and Paranoid States	10	8	18
Paranoia and Paranoid States	11	22	33	Senile Psychosis	4	5	9
Senile Psychosis	2	44 1	3	Pre-Senile Psychosis	2	1	3
Pre-Senile Psychosis		19	68	Psychosis with Cerebral Arteriosclerosis	14	2	17
Psychosis with Cerebral Arteriosclerosis	49	19	68		21	7	28
Alcoholic Psychosis	6	Ŧ	7	Alcoholic Psychosis	10	6	16
Psychosis of Other Demonstrable Etiology	5	5	10	Psychosis of Other Demonstrable Etiology		9	20
Other and Unspecified Psychoses	8	4	12	Other and Unspecified Psychoses	11		
Anxiety Reaction	11	4	15	Anxiety Reaction	4	11	15
Hysterical Reaction	******	5	5	Hysterical Reaction	_	6	6
Obsessive-Compulsive Reaction		_		Obsessive-Compulsive Reaction	1	_	1
Neurotic Depressive Reaction	30	29	59	Neurotic Depressive Reaction	27	27	54
Psychoneurosis with Somatic Symptoms				Psychoneurosis with Somatic Symptoms			
(Somatization Reaction) Affecting				(Somatization Reaction) Affecting			
Circulatory System		2	2	Circulatory System	_		_
Other and Unspecified Psychoneurotic		_	_	Other and Unspecified Psychoneurotic			
Reactions	4	15	19	Reactions	6	14	20
Pathological Personality (All Categories)	64	16	80	Pathological Personality (All Categories)	54	28	82
Immature Personality (All Categories)	25	13	38	Immature Personality	9	13	22
Alcoholism Without Psychosis	225	49	274	Alcoholism Without Psychosis	268	33	301
	1	1	213	Other Drug Addiction	200	00	201
Other Drug Addiction	6	7	13	Primary Childhood Behaviour Disorders	5	7	12
Primary Childhood Behaviour Disorders	12	17	29	Mental Deficiency Without Psychosis	12	11	23
Mental Deficiency Without Psychosis	12	Τ.(	49		14	TT	40
Other and Unspecified Disorders of		_	00	Other and Unspecified Disorders of	0	13	19
Character, Behaviour and Intelligence	13	9	22	Character, Behaviour and Intelligence	6	13	19
Paralysis Agitans	1		_1	Paralysis Agitans			
Epilepsy	7	4	11	Epilepsy	11	5	16
Puerperal Psychosis	_	5	5	Puerperal Psychosis		2	2
Other Diseases of Brain	2	_	2	Other Diseases of Brain		1	1
Mental Observation Without Need for				Mental Observation Without Need for			
Psychiatric Care	27	18	45	Psychiatric Care	6	4	10
Nervousness and Debility	wrom	_		Nervousness and Debility	_		
Other Non-Psychiatric Conditions	13	14	27	Other Non-Psychiatric Conditions	2	1	3
TOTALS	672	392	1064	TOTALS	714	455	1169

TABLE 4

ALBERTA HOSPITAL, EDMONTON
DIAGNOSIS OF PATIENTS ON BOOKS, DECEMBER 31, 1967

Diagnosis Classification	Male	Female	Total
General Paralysis of the Insane	5	1	6
Syphilis of Central Nervous System	1	_	ĭ
Schizophrenia (All Categories)	443	205	648
Manic Depressive (All Categories)	21	49	70
Involutional Melancholia	13	26	39
Paranoia and Paranoid States	23	13	36
Senile Psychosis	32	48	80
Pre-Senile Psychosis	7	8	15
Psychosis with Cerebral Arteriosclerosis	68	46	114
Alcoholic Psychosis	14	6	20
Psychosis of Other Demonstrable Etiology	32	18	50
Other and Unspecified Psychoses	9	13	22
Anxiety Reaction	3	5	8
Obsessive-Compulsive Reaction	1	5 1 2	8 1 3
Neurotic Depressive Reaction	8	6	
Psychoneurosis with Somatic Symptoms	0	ь	14
(Somatization Reaction) Affecting			
Circulatory System			
Other and Unspecified Psychoneurotic			_
Reactions	6	14	20
Reactions Pathological Personality (All Categories)	21	7	28
Immature Personality	2	5	7
Alcoholism Without Psychosis	52	5 4	56
Other Drug Addiction	1		1
Primary Childhood Behaviour Disorders	$\bar{2}$		2
Mental Deficiency Without Psychosis	24	17	41
Other and Unspecified Disorders of			
Character, Behaviour and Intelligence		2	2
Paralysis Agitans		ī	1
Epilepsy	10	6	16
Puerperal Psychosis	_		_
Other Diseases of Brain	2	_	2
Mental Observation Without Need for			
Psychiatric Care	10	12	22
Nervousness and Debility	10	1	_1
Other Non-Psychiatric Conditions	12	<b>2</b> 3	35
TOTAL	822	539	1201
	044	539	1361

TABLE 5
ALBERTA HOSPITAL, EDMONTON
AGE OF PATIENTS ON ADMISSION

		ADMIS		REAL	DMISSI	ONS	TR	ANSFE	RS		TOTAL	_
AGES	M	F	T	M	F	T	M	F	T	M	F	т
Under 15 years	6	12	18	-	2	2			_	6	14	20
15 to 19 years	50	42	92	13	20	33				63	62	
20 to 24 years	67	55	122	57	43	100	7		-	125	98	125
25 to 29 years	55	32	87	65	62	127	1	1	1	121	95	223
30 to 34 years	77	48	125	63	70	133	2	1	3	142		216
35 to 39 years	83	29	112	112	65	177		1	0	195	119 94	261
40 to 44 years	76	33	109	132	62	194	1		1	209	95	289
45 to 49 years	71	29	100	82	29	111	1	2	3	154	60	304
50 to 54 years	44	16	60	76	44	120	1	2	9	120	63	214
55 to 59 years	41	19	60	45	18	63	2	1	2	88	38	183
60 to 64 years	29	14	43	33	12	45	2	7		64	26	126
65 to 69 years	18	13	31	10	9	19	2	1	2	30	23	90
70 and over	55	50	105	26	19	45	5	1	5	86	69	53
					10		J		J	00	69	155
TOTAL	672	392	1064	714	455	1169	17	9	26	1403	856	2259
	—											

TABLE 6
ALBERTA HOSPITAL, EDMONTON
DISCHARGES BY DIAGNOSIS AND CONDITION ON DISCHARGE

	Red	cover	ed	Much	Impi	oved	In	prove	d		hange impro		Т	otal	
DIAGNOSIS	M	F	Т	M	F	Т	M	F	Т	М	F	Т	М	F	Т
General paralysis of the insane Syphilis of central nervous system Schizophrenia (all categories) Manic depressive (all categories) Involutional melancholia	-	- 6 2 1	- - 6 2 1	- 19 5	37 4 3	- 56 9	257 41 7	1 208 56 19	- 1 465 97 26	- 39 4	- 22 5 3	61 9 3	315 50 7	1 273 67 26	588 117 33
Paranoia and paranoid states Senile psychosis Pre-senile psychosis Psychosis with cerebral	-	-	-	- - 1	-	- - 1	12 4 2	11 6 2	23 10 4	8	1 7 -	1 15 -	12 12 3	12 13 2	24 25 5
arteriosclerosis Alcoholic psychosis	1 2	-	1 2	1	2	1 3	13 24	5	18 27	21	1	22	36 27	6	42 33
Psychosis of other demonstrable etiology Other and unspecified psychoses Anxiety reaction Hysterical reaction Obsessive-compulsive reaction	-	-	-	2	2 1 1	2 3 1 -	10 10 13 1	5 8 12 5	15 18 25 6 1	1 3 1	1 6 2 4	2 9 3 4	11 15 14 1	8 15 15 9	19 30 29 10
Neurotic depressive reaction Psychoneurosis with somatic (somatization reaction) affect- ing circulatory system	1	-	1	1	2	3	53	48	101	5	17	22	60	67	127
Other and unspecified psycho- neurotic reactions	-	1	1	1	-	1	10	20	30	_	2	2	11	23	34
Pathological personality (all categories) Immature personality	-	1 1	1	-	1 -	1 -	96 22	31 16	1 27 38	26 12	15 7	41 19	122 34	48 24	170 58
Alcoholism without psychosis Other drug addiction Primary childhood behaviour	-	- 1	1	-	2 -	2 -	477 1	75 -	552 1	23	7 -	30	500	84	584
disorders Mental deficiency without psychosis	-	-	-	-	1	1	8 2	11	19	5 17	2 21	38	13	14	27
Other and unspecified disorders of character, behaviour and intelligence	-	-	-	-	1	1	17	15	32	8	10	18	25	26	51
Paralysis agitans Epilepsy Puerperal psychosis	- - -	- - -	-	-	- 3	- 3	8 - 3	6 6	14	- 4 - 1	- 2 -	6	12	8 9	20
Other diseases of brain Mental observation without need for psychiatric care	_	-	-	-	-	-	9	_	9	21	12	33	30	12	42
Nervousness and debility Other non-psychiatric conditions - senility	-	-	-	-	-	-	-	-	-	7	2	9	7	2	9
TOTALS	4	13	17	31	60	91	1,101	582	1,683	207	151	358	1,343	806	2,149

TABLE 7
ALBERTA HOSPITAL, EDMONTON
DISCHARGES SHOWING DURATION OF RESIDENCE IN HOSPITAL

	Under	3	mos.	Under	sow 9.		Under	9 mos.		Under	12 mos		Under 2	yrs.	6	Over 2	yrs.		Total	al	
DIAGNOSIS	M	Ĺı	T	M	ĹĿij	H	Z	ĹΉ	H	M	ĹTI	F	Z	L L	×		<u>H</u>	,	×	(II)	Н
General paralysis of the insane Syphilis of central nervous system Schizophrenia (all categories) Manic depressive (all categories) Involutional melancholia	196	- 171 56 21	367	1 1 4 6 2 2 3	1 4 5 1	110	1 25 1 1	1 20 4 1	1 172 12 1	1 100 10 1	1 10 1 1	188	1 188 - 1	1 1 4 1 1	22 22 22 22 2 3	11281	1 1 4 1 4	1 - 26 - 4 4 4	315 2 50 7	273 67 26	588 1117 33
Paranoia and paranoid states Senile psychosis Pre-senile psychosis Psychosis with cerebral arteriosclerosis Alcoholic psychosis	8 8 7 7 7 7 7 7 7 7	0 8 1 4 9	17 14 29 28	84 184	26 12 1	20 101	100-		77 - 67	2	1 1 1 1 1	1 1 1 6 2	(		10000	1115	1-111	1-1-1	112 112 336 27	113	24 25 33 33
Psychosis of other demonstrable etiology Other and unspecified psychoses Anxley reaction Hysterical reaction Obsessive-compulsive reaction	13 17 1	12 9 9 -	22 24 8 8	m 27 - 1 - 1	-4	49211		1 1 1 1	-1-11	11101	- 1 1-1 1		-1-11	1 1 + 1		2 1 1 1 1	m 1 1	0	111111111111111111111111111111111111111	159	19 30 29 10
Neurotic depressive reaction Psychoneurosis with somatic symptoms (somatization reaction) affecting circulatory system Other and unspecified psychoneurotic reactions Pathological personality (all categories)	51	57 2 116 411 20	108 2 25 149 53	20 1-0-	9 1000	11 - 6 - 3 - 3 - 3	e 1 - e e 1	- 1	4 1 2 4 1	1 111	€ 1 1 <del>- 1</del>	w 1141	1 1 1 1	1 1 1 1	1 1161	- 111		- 1	60 - 11 122 34	67 22 24 24 88	127 2 34 170 58
Alcoholism without psychosis Other drug addiction Primary childhood behaviour disorders Mental deficiency without psychosis Other and unspecified disorders of character, behaviour and intelligence	465 2 11 14 24	81 13 23 23	546 3 24 37 45	23 - 3	2 21.1	24	6 1 1 1		2 1 2	01111		W 1 1 1			7 1 1 1 2	111-	1 1 1 1	1 1 2 1	500 2 13 19 25	884 114 32 26	584 27 27 51
Paralysis agitans Epilepsy Puerperal psychosis Other diseases of brain Mental observation without need for psychiatric Care	111 229	12777	16 7 3 40	1-1-1	1	1601		111	11-		11118	1 1 1 1 -	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 - 1	1 1 1 1 1	1 1 1 - 1	12 - 4 4 30	12 9 8 -	20 20 4 2 2 4 2 2 4 2 2
Nervousness and debility Other non-psychiatric conditions	1 4	- 2	9	- 2	1 1	2	1 1	1 1	1 1	1 1	1 1	1 1	4 1	1 1	1 1	1	1 1	) pert	- 2	- 2	6
TOTALS	1,095	609	1,704	118	117	235	51	36	87	19	17	36	27	6	36 3	33	18	51   1,	1,343	806 2	2,149

TABLE 8
ALBERTA HOSPITAL, EDMONTON
DEATHS BY ABRIDGED INTERNATIONAL STATISTICS
CLASSIFICATION

TABLE 9
ALBERTA HOSPITAL, EDMONTON
DEATHS BY DIAGNOSIS

	•		
	Male	Female	Total
Malignant neoplasms, including Neoplasms of Lymphatic and Haematopoietic Tissues Vascular Lesions Affecting Central	6	4	10
Nervous System	8	1	9
Heart Disease Other Diseases of Heart	7	4 3	11 3
Pneumonia Nephritis and Nephrosis	14	10	24
Senility Without Mention of Psychosis,	1		Ü
Ill-defined and Unknown Causes	11	6	17
All Other Diseases	4	3	7
All Other Accidents, Including Burns Suicide and Self-inflicted Injury,	1	2	3
Including Effects of Injuries	1	_	1
TOTAL	53	35	88
		-	

General Paralysis of the Insane Schizophrenia (All Categories) Manic Depressive (All Categories) Involutional Melancholia Paranola and Paranoid States Senile Psychosis Pre-Senile Psychosis Psychosis with Cerebral Arteriosclerosis Alcoholic Psychosis Psychosis of Other Demonstrable Etiology Other and Unspecified Psychoses Neurotic Depressive Reaction Psychoneurotic Disorders, Other, Mixed Alcoholism Without Psychosis Mental Deficiency Without Psychosis Epilepsy Other Diseases of Brain Senility	1 6 2 16 2 2 16	Female	Total 1 14 2 1 13 3 22 2 5 1 2 1 15
TOTAL	53	35	88

## CONTINUED TREATMENT HOSPITALS

ALBERTA HOSPITAL, CLARESHOLM ALBERTA HOSPITAL, RAYMOND ROSEHAVEN, CAMROSE

At the Alberta Hospital, Claresholm, a new building was completed just at the end of the year which delayed the planned redistribution of patients at Raymond. Construction was commenced in the late fall on an Occupational and Recreational Therapy Building and a Staff Residence for both men and women. The patient population at the end of the year was 105 men and 236 women, one less than in the previous year. There were no changes in the operation of the Alberta Hospital, Raymond. There were 117 patients in residence at the end of the year.

The number of patients at Rosehaven, Camrose, was reduced by 17 due to the demolition of a small temporary ward unit in preparation for construction of a new powerhouse and kitchen building as well as a new ward unit. There were 91 deaths chiefly from Degenerative Heart Disease and Terminal Pneumonia. The average age at death was 83.5 years. Most of the patients at Rosehaven are transferred from the active treatment hospitals and are persons who could not be cared for in nursing homes.

#### ALBERTA HOSPITAL, CLARESHOLM A. R. Schrag, M.D., C.R.C.P. (C), Medical Superintendent

#### MOVEMENT OF PATIENTS

The total number of patients in residence January 1, 1967, was 342. There were 109 male patients and 233 female patients.

One female patient was admitted under Form V.

Twenty-seven female patients and four male patients were transferred to this hospital from the Alberta Hospital, Ponoka, the Alberta Hospital, Edmonton, the Holy Cross Hospital, Calgary, and the Claresholm Municipal Hospital.

Three female patients were discharged.

There were 12 deaths of which 11 were female patients and one male patient.

Thirteen female patients and five male patients were transferred to the Alberta Hospitals at Edmonton and Ponoka for further psychiatric care or necessary medical or surgical treatment, or temporarily transferred to Calgary Hospitals for orthopedic surgery.

There were 341 patients, 105 male and 236 female, in residence at December 31, 1967.

Under The Alberta Mental Health Act the status of admission was changed for five patients from Renewal Certificates to Voluntary, and one from Certificate of Detention to Voluntary. Authorization for treatment of 37 patients without relatives was obtained under Section 13(1a).

#### **NEW BUILDINGS**

Construction of the fifth ward was completed, and the Occupational Department moved into the one wing in December. Construction started on the Staff Residence and MacLean Hall.

#### GENERAL HEALTH

The general health of the patients was good. The increased number of geriatric patients, who required total care, made it necessary to augment the staff.

The necessary immunization program of patients and staff was carried out as directed.

Emergency X-Ray and Laboratory tests were done at the Claresholm Municipal Hospital.

Two of the local physicians visited the hospital and took emergency calls.

#### OCCUPATIONAL DEPARTMENT

The Occupational Therapy Department made and sold articles throughout the year. The usual display was arranged at the Claresholm Annual Fair.

Crafts and group activities were continued on the wards and regressed patients were encouraged to join in simple crafts.

 $\boldsymbol{A}$  group of female patients went to the garden during the summer months.

#### RECREATIONAL ACTIVITIES

Many parties were organized on each ward and patients from other wards were entertained.

The patients' choral group visited and sang on all the wards. Their Christmas Carols were very well received.

Both male and female patients continued to enjoy the dancing group organized by the Occupational Staff.

During the winter the patients went for daily walks and spent many hours on the lawns during the summer.

Many of the patients enjoyed the weekly shows.

Organizations from Claresholm and the surrounding areas entertained the patients at teas and outings. The Callow Coach came twice each month during the summer.

Many local groups brought carol singers to the hospital.

Bad weather cancelled the annual drive organized by the men's organizations at Christmas.

#### **RELIGIOUS SERVICES**

Religious services were conducted each Sunday by the local clergy. Other groups held devotional services once or twice a month. Local residents took patients to the church services in town or to the women's church groups.

#### **BUILDINGS**

The maintenance staff made the necessary repairs. The necessary outside painting was done and one ward was repainted. Installation of an air cooling system was commenced.

#### **GARDENS and GROUNDS**

There was an abundant crop of vegetables. There was a shortage of shaded areas for the patients.

#### **STAFF**

The increased number of patients requiring total care necessitated augmenting the staff.

The advice and help of the Consultant Dietitian was greatly appreciated.

#### VISITORS

The Deputy Minister of Health, the Director, Division of Mental Health, and the Assistant Director, visited the hospital and their help and advice was appreciated.

Relatives and friends visited the patients during the year.

TABLE 1
ALBERTA HOSPITAL, CLARESHOLM
MOVEMENT OF PATIENT POPULATION

	MOV	EMENT	OF PAT	IENT PO	PULATIO	N	Male	Female	Total	
Patients on Books at Decemi	oer 31,	1966					109	239	348	
ADMISSIONS	M	F	Т	M	F	T				
First Admissions:										
Section 5	0	1	1							
Section 6	0	0	0							
Section 7	0	0	0							
Section 8	0	0	0							
Section 9(1)(a) Section 9(1)(b)	0	0	0							
Section 9(1)(b)	0	0	0							
Section Sa				0	1	1				
Re-Admissions:				· ·		_				
Section 5	0	0	0							
Section 6		0	0							
Section 7	0	0	0							
Section 8		ŏ	ő							
Section 9(1)(a)		Ö	Ŏ							
Section 9(1)(b)		Ö	Ō							
Section 9a		0	0							
				0	0	0				
Transfers In:				4	27	31				
							4	28	32	
							113	267	380	
							113	201	300	
SEPARATIONS										
Discharges:										
As recovered		0	0							
As much improved	0	0	0							
As improved		0	0							
As unchanged	0	3	3							
As not Psychotic	0	0	0	0	3	0				
Deaths:				0	11	3 12				
				_	13					
Transfers Out:				5	13	18	6	27	33	
								21	- 33	
							107	240	347	
							=	===	===	
On the Books December 31,	1967 .						107	240	347	
In Residence December 31, 1	1967						105	236	341	
On Leave or Otherwise Abse	ent						2	4	6	

TABLE 2

ALBERTA HOSPITAL, CLARESHOLM ORIGINAL DIAGNOSIS ON ADMISSION TO MENTAL HOSPITAL

Diagnostic Classification	Male	Female	Total
General Paralysis of the Insane	_	3	3
Syphilis of Central Nervous System	2	2	4
Schizophrenia (All Categories)	93	146	239
Manic Depressive (All Categories)	1	18	19
Involutional Melancholia	1	7	8
Paranoia and Paranoid States	5 2	6	11
Senile Psychosis	2		2
Pre-Senile Psychosis	$\frac{}{2}$	18	18
Psychosis with Cerebral Arteriosclerosis	2	8	10
Alcoholic Psychosis	_	5	5
Psychosis of Other Demonstrable Etiology		1	1
Other and Unspecified Psychoses	_	9	9
Anxiety Reaction	_	_	_
Hysterical Reaction	_	_	
Obsessive-Compulsive Reaction	_	-	
Neurotic Depressive Reaction	_	_	_
Psychoneurosis with Somatic Symptoms			
(Somatization Reaction) Affecting			
Circulatory SystemOther and Unspecified Psychoneurotic		_	
Other and Unspecified Psychoneurotic		3	3
Reactions	_	J	J
Pathological Personality (All Categories)	_		
Immature Personality			
Alcoholism Without Psychosis	_		
Other Drug Addiction Primary Childhood Behaviour Disorders			
Mental Deficiency Without Psychosis	1	10	11
Other and Unspecified Disorders of	_	10	
Character, Behaviour and Intelligence			_
Paralysis Agitans			
Epilepsy		1	1
Puerperal Psychosis	_	_	
Other Diseases of Brain		3	3
Mental Observation Without Need for			
Develiatric Care		_	
Nervousness and Debility	_		_
Other Non-Psychiatric Conditions	_		_
TOTALS	107	240	347

# TABLE 3 ALBERTA HOSPITAL, CLARESHOLM CAUSES OF DEATH ABRIDGED INTERNATIONAL CLASSIFICATION

ABITID GED IIII III			
Disease	Male	Female	Total
Cerebrovascular Occlusion	_	2	2
Coronary Thrombosis	_	1	1
Cerebrovasuclar Hemorrhage	_	3	3
Coronary Occlusion	_	2	2
Pneumonitis—Cachexia	_	1	1
Broncho Pneumonia		1	1
Carcinomatosis	-	1	4
Gastric Hemorrhage	Т		
		11	12
TOTAL			

# TABLE 4 ALBERTA HOSPITAL, CLARESHOLM CLASSIFICATION OF DEATHS ACCORDING TO ORIGINAL PSYCHIATRIC DIAGNOSIS

Disease	Male	Female	Total
Psychosis with Cerebral Arteriosclerosis		2	2
Schizophrenia—Paranoid	_	1	1
Schizophrenia—Catatonic	1	2	3
Pre-Senile Dementia		1	1
Psychosis due to Chronic Encephalitis	_	1	1
Senile Dementia	_	2	2
Psychotic Depressive Reaction		1	1
Schizophrenia—Catatonic on Mental		_	
Defective Basis	_	1	1
TOTAL	1	11	12

#### ALBERTA HOSPITAL, RAYMOND A. R. Schrag, M.D., C.R.C.P. (C), Medical Superintendent

#### **MOVEMENT OF PATIENTS**

On January 1, 1967, there were 117 patients in residence, three on leave of absence, to total 120 patients on the register. During the year there were five admissions by transfer from other Alberta Hospitals. Separations totalled four, comprising three deaths and one transfer to another Alberta Hospital. Thus, on December 31, 1967, there were 121 patients registered, 119 in residence and two on leave of absence.

#### **ACCIDENTS AND ELOPEMENTS**

There were no elopements. Two patients fell, one dislocating her shoulder and the other sustaining a fractured right clavicle.

#### GENERAL HEALTH

All patients were given physical examinations and any abnormalities found were referred to a local clinic of four medical doctors who resolved the medical and surgical requirements satisfactorily. Three patients were found to have Acute Diabetes. Necessary X-Ray and laboratory work was done at the Raymond Municipal Hospital, Raymond Doctor's Clinic and the Lethbridge Municipal Hospital. Emergency dental work was resolved by the local dentist and those patients requiring prescription glasses were taken to an optometrist in Lethbridge. A psychiatrist from the Guidance Clinic at Lethbridge made several visits to interview those patients requiring re-certification and his counsel was available whenever requested.

#### OCCUPATIONAL THERAPY

Daily morning and afternoon classes were held in the Occupational parlor for patients interested in handwork of embroidery, weaving, knitting, crocheting, quilting and mending. This bright, sunny room was also used as a reading room and afternoon tea and cigarettes were served. A radio provided music and the news of the day which often stimulated discussions. Other areas of occupation for the patients were the laundry, kitchen and dining halls, sewing room, nurses residence, wards and dormitories. Each department served afternoon tea and cigarettes. There were approximately 75 patients participating in these various occupations daily.

#### **LIBRARY**

The library was situated in the Occupational Therapy Parlor. The cataloguing of new books, lending and returning of books was the responsibility of one patient. The Raymond Public Library donated many fine books, some new and others in excellent repair. These and bound volumes of magazines covered all fields of interest. Several magazines were subscribed to by patients or by gift subscriptions to them.

#### **RELIGIOUS SERVICES**

Catholic and United Church Services were held at the hospital once each month. On several occasions the choir from Coaldale, Alberta, accompanied the United Church Minister, bringing a song service which was thoroughly enjoyed. The Priests, United Church Minister and Mormon Bishops presided at patients' funerals and gave freely of their time whenever a request was made.

#### RECREATION AND ENTERTAINMENT

The weekly presentation of picture shows continued to provide the most interest and enjoyment for the largest group of patients. This year a wide angle lense for the projector and a wide screen was purchased to enable the showing of a greater variety of more up-to-date films.

Through the summer the Callow Coach took groups of 20 patients on picnics to various parks or on sight-seeing tours once each month. These trips were anticipated with great enthusiasm and much interest was shown in crop progress, new construction, et cetera.

The Raymond Rotary Club brought bouquets of early tulips, daffodils and peonies that had been flown in from British Columbia. These flowers were a breath of spring and a delight on the wards. The Raymond Music Club brought their 24th annual Christmas Concert and treats to the patients which was thoroughly enjoyed. The wards and Christmas trees were beautifully decorated and the patients were proud of their participation in the project when complimented on the showing. Wrapped Christmas gifts were donated by the Lethbridge Division of the Canadian Society of Radiologial Technologists, the Lethbridge Branch of the Canadian Mental Health Association, the Quota Club, the Major Jack Ross Chapter I.O.D.E., the Colonel Mewburn Chapter I.O.D.E. and the Women's Institute. Donations of used clothing, jewellery and cosmetics were received periodically from the women's organizations of Milk River, Warner, New Dayton, Jefferson, Cardston and Taber. The faithful support of the women in all of these groups is highly commendable.

Picnics on the lawns, Bingo parties, dances, et cetera were held at intervals throughout the year. There was a piano, radio and television set in the dayroom as well as in the Annex sitting room.

#### STAFF CHANGES

The farm worker reached retirement age and this position was changed to that of vegetable gardener which was filled by an enthusiastic worker. The ward aides appointed one of their number as liaison officer and monthly meetings were held. This proved to be a very satisfactory arrangement. Relief personnel for staff illnesses and vacations was adequate and satisfactory.

#### **VISITORS**

The Director and Assistant Director, Division of Mental Health, made several visits of inspection and instruction and their guidance was very much appreciated.

The Deputy Minister of Health, the Board of Visitors, the heads of the Personnel, Purchasing and Audit departments and the Accounting offices were visitors, and their suggestions and direction were of considerable value. The Business Manager from Alberta Hospital, Claresholm, kept in close touch and visited at least once monthly. Periodic visits of inspection were made by members of the Department of Public Works, Electrical and Boiler Inspector and the Fire Department.

#### **GARDENS AND GROUNDS**

The lawns and flower beds continued to show improvement and greatly complemented the hospital buildings. They attracted many visitors. The wards were seldom without fresh-cut flower bouquets which greatly pleased those unable to be outdoors. Due to the late spring snowfall the vegetable garden was not as abundant as usual but adequate for the summer and winter requirements with the exception of the potato crop which did not mature normally due to the shorter growing season.

#### RENOVATION AND CONSTRUCTION

The exteriors of all institution buildings were re-painted and the stucco portion changed from white to pink-beige. This had the pleasing effect of softening the general outlines of the main hospital building with a better blending into the general landscape. In the main building the kitchen, storerooms and halls on the groundfloor were re-painted. The hallways, south dormitory, infirmary and

stair wells on the first floor were painted. On both floors new wall-hung convex radiators replaced the old cast iron standing type radiators. A new toilet was added to the north bathroom and a new bathtub and hand rails replaced the old tub in the south bathroom. For the kitchen new fluorescent light fixtures replaced the old drop type incandescent fixtures, a new stove was purchased and a garburator added to the equipment. In the patient's dining hall the light fixtures were replaced with fluorescent lighting and new tables and chairs purchased. Three window-type refrigerator air conditioners were purchased for installation in the small dayroom, main office and sewing room. The sewing room also received electric scissors. A flat ironer was purchased for the laundry. A new typewriter was purchased for the main office and a portable typewriter for the Matron's office. Colorful chrome and vinyl chairs were added to the dayroom furnishings and stacking lawn chairs purchased for color and comfort on the lawns.

There was no new construction.

#### CONCLUSION

The general health of the patients was satisfactory and there were no infectious illnesses. There was adequate medical co-operation and no shortage of medical supplies. An ambitious maintenance program was carried out and through the year there were no serious equipment breakdowns in any of the departments.

Seven patients continued hospitalization by recertification and all others were under Voluntary Certificates.

TABLE 1
ALBERTA HOSPITAL, RAYMOND
MOVEMENT OF PATIENT POPULATION

Patients on Books at Decem	her 31 1	1966					Male —	Female 120	Total 120
ADMISSIONS	M	F	T	M	F	Т			
First Admissions:									
Section 5	0	0	0						
Section 6	0	0	0						
Section 7	0	0	0						
Section 8	0	0	0						
Section 9(1)(a)	0	0	0						
Section 9(1)(b)	0	0	0						
Section 9a	0	0	0						
				0	0	0			
Re-Admissions:									
Section 5	0	0	0						
Section 6	0	0	0						
Section 7		0	0						
Section 8		0	0						
Section 9(1)(a)	0	0	0						
Section 9(1)(b)		0	0						
Section 9a	0	0	0						
				0	0	0			
Transfers In:				0	5	5	0	-	5
					_		0	5	Э
								125	125
							U	123	123
SEPARATIONS									
Discharges:	_	0	0						
As recovered	0	0	0						
As much improved	0	0	0						
As improved	0	0	0						
As unchanged	0	0	0						
As not Psychotic	0	U	U	0	0	0			
				ő	3	3			
Deaths:				0	1	1			
Transfers Out:				U			0	4	Δ
							-	- 4	4
							0	121	121
									747
	1007						0	121	121
On the Books December 31, In Residence December 31,	1907						ő	119	119
In Residence December 31, On Leave or Otherwise Absorb	1967						ŏ	2	2
On Leave or Otherwise Abs	ent							20	20

TABLE 2 ALBERTA HOSPITAL, RAYMOND NOSIS ON ADMISSION TO MENTAL HOSPITALS

ORIGINAL DIAGNOSIS ON ADMISSION	TO MEN	TAL HOSE	PITALS
Diagnostic Classification	Male	Female	Total
Diagnostic Classification General Paralysis of the Insane Syphilis of Central Nervous System	_	2	2
Syphilis of Central Nervous System	_	_	
Schizophrenia (All Categories)		84	84
Manic Depressive (All Categories)		8	8
Involutional Melancholia		1	1
Paranoia and Paranoid States		6	6 1 1 5 3
Senile Psychosis	_	1	1
Pre-Senile Psychosis		5	Ť
Psychosis with Cerebral Arteriosclerosis	_	3	5
Alcoholic Psychosis		3	3
Other and Unspecified Psychoses		_	
Anxiety Reaction		_	_
Hysterical Reaction			_
Obsessive-Compulsive Reaction			_
Neurotic Depressive Reaction	_	_	
Psychoneurosis with Somatic Symptoms			
(Somatization Reaction) Affecting			
Circulatory SystemOther and Unspecified Psychoneurotic		1	1
Other and Unspecified Psychoneurotic			
Reactions			
Pathological Personality (All Categories)		3	3
Immature Personality	_	_	_
Alcoholism Without Psychosis			
Other Drug Addiction	_	_	_
Primary Childhood Behaviour Disorders Mental Deficiency Without Psychosis	_	3	3
Other and Unspecified Disorders of		3	D.
Character, Behaviour and Intelligence		1	1
Paralysis Agitans			
Epilepsy		1	1
Puerperal Psychosis		_	
Other Diseases of Brain	_	1	1
Mental Observation Without Need for			
Psychiatric Care	_		
Nervousness and Debility	-	_	_
Other Non-Psychiatric Conditions	_	_	_
TOTALS	-	121	121

TABLE 3
ALBERTA HOSPITAL, RAYMOND
CAUSES OF DEATH
ABRIDGED INTERNATIONAL CLASSIFICATION

<b>F</b> otal
1
1
1
3

## TABLE 4 ALBERTA HOSPITAL, RAYMOND DEATHS BY ORIGINAL DIAGNOSIS

Diagnostic Classification	Male	Female	Total
Schizophrenia (All Categories)		2	2
Paranoia and Paranoid States	_	1	1
TOTAL	-	3	3

ROSEHAVEN, CAMROSE A. R. Schrag, M.D., C.R.C.P. (C), Medical Superintendent

#### **MOVEMENT OF RESIDENTS**

On January 1, 1967, the resident population at Roséhaven numbered 484, of which 270 were men and 214 were women. The total number in residence on December 31, 1967, was 467; 247 men and 220 women.

There were 109 residents admitted to Rosehaven during 1967. Of this number, 55 were transferred from Alberta Hospital, Edmonton, 19 from Alberta Hospital, Ponoka, one was readmitted on transfer from Alberta Hospital, Edmonton, and 34 returned from leave of absence.

Separations from Rosehaven during 1967 numbered 126; 91 were attributable to death, two were discharged to nursing homes and 33 went on leave of absence.

With the demolition of a small unit, the total number of beds at Rosehaven was reduced by 32. The admission of male patients by transfer was correspondingly reduced.

Admissions throughout the year in the form of transfers from the Alberta Hospitals filled beds made available by death or discharge. The average daily population was 471.5.

Deaths were due to degenerative causes. The average age at death was 83.5 years.

In accordance with the Alberta Mental Health Act, 25 residents were changed to voluntary admission status. At the end of the year, two patients remained on renewal certificates.

#### **ACCIDENTS AND ELOPEMENTS**

During the year, a number of residents received injuries either from accidental falls or as a result of interference from other residents. Many of these resulted in contusions or lacerations of a minor nature and required only first aid treatment. There were 61 accidents of a more serious nature which required either medical and surgical attention or X-ray investigation. These included 18 lacerations requiring suturing, 26 fractures and dislocations and 17 X-ray or medical examinations. There was no increase in the number of accidents requiring medical attention but there was an increase in the number of minor accidents largely attributable to accidental falls.

#### **GENERAL HEALTH**

The general health of the residents was considered satisfactory in view of the age group. An advanced state of mental and physical deterioriation was evident in the majority of admissions as well as a progressive decline in the resident population.

An average of 75 residents required bed care each day. During the year 47 patients were admitted to St. Mary's Hospital and spent 318 hospital days receiving surgical, orthopedic or medical attention. There was no increase in the number of residents admitted to St. Mary's Hospital but an increase in the number of residents requiring bed care at Rosehaven was evident.

Out-patient work done at St. Mary's Hospital for Rosehaven residents included 454 laboratory tests, 180 X-rays, 16 minor surgical procedures and 12 diagnostic tests. Eighty specimens were sent to the Provincial Laboratory for culturing. Six patients attended the Smith Clinic for follow-up cancer examination. Tuberculin tests were given to residents if indicated and chest X-rays were taken on all reactors by the Mobile Chest X-ray unit. Any recommendations for further investigations were done.

Medical care was supplied by the doctors of the Smith Clinic, Camrose.

Two visits were made by the dentist from Alberta Hospital, Edmonton, and routine examinations and care was given to the residents. Emergency dental work was done by a local dentist.

The service of a local optometrist was available and glasses were supplied to residents when prescribed.

#### **OCCUPATIONAL THERAPY**

Occupational therapy classes were operated throughout the year. An average of 71 residents attended classes twice a week. Articles made were readily sold, being purchased by the residents, staff members or friends. An average of 36 residents assisted with light tasks on the wards.

#### **RELIGIOUS SERVICES**

Weekly Protestant Church services were held at Rosehaven and arranged by the Ministerial Association. The services of the Roman Catholic priests were available as needed. Local ministers visited patients and services were arranged for special occasions.

#### RECREATION

An average of 95 residents had grounds privileges and were out almost daily. Large numbers were taken out as lawn groups when weather permitted. A movie film was shown every other week from October to June with an average of 95 residents attending. Birthday parties were held for small groups during the year. Suitable entertainment was arranged at Christmas, Hallowe'en, Easter and Thanksgiving. Picnic outings were enjoyed during the summer. A group of residents was taken on a tour to Camrose to view the Christmas lights. Cards, games or bingo were arranged each week and television and radios were available for the use of the residents on all wards. Several organizations and church groups sponsored car rides, parties, concerts or social hours for the residents. Exservicemen were entertained each month by members of the Ladies' Auxiliary to the Canadian Legion.

#### **BUILDINGS**

Buildings were well maintained and repairs done promptly. The building known as Paden Cottage was demolished during the year diminishing the resident census by 32. The basement area of Hawthorn was remodelled to provide storage areas for equipment and clothing. Work was commenced on a new Service Building complex and connecting tunnels. Plans have been completed to erect one of the three proposed ward buildings.

#### GARDEN AND GROUNDS

The garden and grounds were well maintained during the year. The flower beds and lawns were beautiful and fresh cut flowers and potted plants were supplied to the wards.

#### STAFF

The general health of the staff was good. A considerable number of staff sustained lumbar strains or injuries in the course of their duties. The staff immunization program was continued. All staff had chest X-rays and Tuberculin tests were done. T.A.B.T. vaccine was given to all staff and all food handlers had routine stool cultures.

There were vacancies on the nursing staff throughout the year and trained personnel was not available either to fill the staff complement or the summer relief positions. Vacancies arising from resignations of untrained staff were filled although there was more difficulty experienced in procuring suitable staff for relief or permanent positions.

A housekeeping department was organized and additional institutional workers and cleaning porters were appointed for this department. A new position of Nursing Instructor and Health Nurse was created and filled.

#### VISITORS

Visits were made to Rosehaven by the Director of Mental Health and the Assistant Director during the year. The Board of Visitors toured the hospital in October.

Architects and consultants visited in connection with current construction and the proposed building program.

TABLE 1
ROSEHAVEN, CAMROSE
MOVEMENT OF PATIENT POPULATION

In residence December 31, 1966	Male	Female	Total	Male 270	Female 214	Total 484
ADMISSIONS:						
Transferred from Alberta Hospital, Edmonton Transferred from Alberta Hospital, Ponoka	29	26 12	55 19			
Readmitted from Alberta Hospital, Edmonton	i	_	1			
Returned from L.O.A.	15	19	34			
	52	57	109			
	—	_		52	57	109
				322	271	593
SEPARATIONS:						
Deaths	60	31	91			
Discharged	1 14	1 19	2 33			
On L.O.A.		15				
	75	51	126	75	51	126
					21	120
In residence December 31, 1967				247	220	467

TABLE 2

ROSEHAVEN, CAMROSE

ORIGINAL DIAGNOSIS ON ADMISSION	TO MEN	ITAL HOSE	PITALS
Diagnostic Classification General Paralysis of the Insane Syphilis of Central Nervous System Schizophrenia (All Categories) Manic Depressive (All Categories) Involutional Melancholia Paranoia and Paranoid States Senile Psychosis Pre-Senile Psychosis Pre-Senile Psychosis Psychosis with Cerebral Arteriosclerosis Alcoholic Psychosis Psychosis of Other Demonstrable Etiology. Other and Unspecified Psychoses Anxiety Reaction Hysterical Reaction Obsessive-Compulsive Reaction	Male 3 7 58 8 1 11 67 2 55 5	Female	Total 3 7 97 27 4 22 151 2 94 5 6
Neurotic Depressive Reaction Psychoneurosis with Somatic Symptoms (Somatization Reaction) Affecting Circulatory System Other and Unspecified Psychoneurotic		1	1
Reactions Pathological Personality (All Categories)	_		=
Immature Personality			
Alcoholism Without Psychosis	5	_	5
Other Drug Addictions		_	-
Primary Childhood Behaviour Disorders Mental Deficiency Without Psychosis Other and Unspecified Disorders of	2	5	7
Character, Behaviour and Intelligence			_
Paralysis Agitans			
Epilepsy	Name and	_	_
Puerperal Psychosis		-	
Puerperal Psychosis Other Diseases of Brain Mental Observation Without Need for	_	_	_
Psychiatric Care	_	_	_
Nervousness and DebilityOther Non-Psychiatric Conditions	15	17	32
TOTALS	247	220	467

TABLE 3

ROSEHAVEN, CAMROSE

CAUSES OF DEATH

ABRIDGED INTERNATIONAL CLASSIFICATION

ABRIDGED INTERNATIONAL C	LASSIF	CATION	
Disease	Male	Female	Total
Diseases Classified as Infective		1	1
Malignant Neoplasms	4		4
Vascular Lesions	9	4	13
Arteriosclerotic and Degenerative Heart Disease	20	17	37
Pneumonia	26 1	9	35 1
Chillosis of the Mivel	-		
TOTAL	60	31	91

TABLE 4

ROSEHAVEN, CAMROSE

CLASSIFICATION OF DEATHS ACCORDING TO ORIGINAL PSYCHIATRIC DIAGNOSIS

TOTOLITIES DIME	10010		
Disease	Male	Female	Total
General Paralysis of the Insane	1	_	1
Syphilis of the Central Nervous System	1	1	2
Schizophrenia (All Categories)	8	5	13
Manic Depressive	1	1	2
Paranoia and Paranoid States	2	ï	3
Senile Psychosis	22	12	34
Psychosis with Cerebral Arteriosclerosis	17	8	25
Alcoholic Psychosis	1	_	1
Psychosis with Brain Tumor	1	_	1
Other Unspecified Psychoneurotic Reactions	1		1
Other Non-Psychiatric Conditions	5	3	8
TOTAL	60	31	91

# INSTITUTIONS FOR MENTAL DEFECTIVES

ALBERTA SCHOOL HOSPITAL, RED DEER DEERHOME, RED DEER

The Alberta School Hospital, Red Deer, patient population increased by 55 to 977 which includes patients cared for at the Baker Memorial Sanatorium where another section of Pavilion 5 was made available for wheelchair patients.

Dr. J. M. Brown was appointed Superintendent of Deerhome on July 1st providing much needed administrative leadership and co-ordination of programs. Two patient placement officers were appointed to supervise trainees in employment in the community and do follow-up work. The patient population was increased by nine to 1,228.

#### ALBERTA SCHOOL HOSPITAL RED DEER

L. J. le Vann, L.R.C.P. Edin., L.R.C.S. Edin., L.R.F.P.S. Glas., Superintendent

### IN RESIDENCE, ADMISSIONS, DISCHARGES, DEATHS

The role of Alberta School Hospital remained that of a primary admission centre for mentally retarded children between the ages of four and 16 years. During the year there were 119 new admissions and 14 patients were readmitted. The number of retarded children listed in residence during 1967 was 1,055. These comprised 597 males and 458 females. The total population at the end of the year was listed as being 977; 541 males and 436 females. These figures also included patients in the Pediatric Unit of the Baker Memorial Sanatorium.

Forty-six patients were discharged to work situations, there were 14 patients transferred to Deerhome and 18 deaths.

No patients were presented to the review panel since all patients in residence were here on a voluntary basis.

#### APPLICATIONS FOR ADMISSION

There were 159 new applicants for admission to the School during the year. Of these applicants, 60 were admitted, however, in all 133 patients were admitted during the year.

### BOARD OF VISITORS, EUGENICS BOARD VISITS, STERILIZATIONS, ET CETERA

The Board of Visitors visited the School on October 17th and inspected all the villas and interviewed many patients.

The Eugenics Board held three meetings at Alberta School Hospital and had thirty cases presented to them. Two cases were deferred and one case from Deerhome was included in the number of cases presented. Twenty-eight

cases were passed by the Eugenics Board of Alberta for sterilization. Eugenics surgery was carried out on 59 patients; 14 males and 16 females from Alberta School Hospital, 14 males and six females from Deerhome and one male and eight female out-patients.

#### STAFF CHANGES AND ACTIVITIES

The School was without a full-time Medical Officer but utilized the part-time services of two local physicians and was able to call in a wide range of medical specialists with respect to patients' medical needs. There was improvement in obtaining male attendants and nursing staff generally.

#### HEALTH OF TRAINEES AND STAFF

The health of the children and staff remained good. There were no cases of tuberculosis and general immunization procedures were carried out on patients and staff. The patient population received their initial inoculations or booster shots for poliomyelitis, diphtheria and the enteric fevers in accordance with clinical indications. Measles vaccination was also carried out on young children who had not yet had measles. Nursing staff were immunized against enteric fevers and chest films were carried out as a yearly procedure on all staff.

#### TRAINING PROGRAM FOR NURSES AND ATTENDANTS

During the year 99 students started their first year lectures. At the end of the year 86 of these were still so employed. Fifty-four students started second year lectures, of these 48 were still present at the end of the year. The third year nursing students numbered 21 and by the end of the year 20 were still present. This represented a much lower percentage of drop-outs from each nursing year and it was anticipated that the second year students who completed this year's program, will next year present the largest class ever graduated from the Alberta School Hospital.

#### TRAINING PROGRAM FOR TRAINEES

The academic school program placed emphasis in relating all academic subjects to practical life experiences. Every effort was made to develop the child to his highest level of academic achievement, combined with vocational training. Children who were transferred entirely to vocational training programs were graduated from the academic program in a formal exercise and presented with diplomas. This was in keeping with the continuing "conditioning" methods which were employed very successfully at this School over a period of many years. The graduation

ceremony also acted as a stimulus for these children to encourage them to maintain the same interest and ambition in their vocational training.

The children visited the Centennial Train when it was in Red Deer. The School chorus entered the Kiwanis Parkland Music Festival and gained more points for the year than in 1966. However, due to extensive competition they placed third, tying with three of the city schools for normal children.

After the Easter holidays, 36 of the senior students went to the Court House to see a court in session. The court procedures were explained in detail by the circuit court judge and the students reacted favourably and showed great interest in the proceedings.

The School's centennial project took the form of an "Open House" for the City of Red Deer and many citizens from Red Deer attended to witness a performance by the school chorus as well as inspecting the school work program.

Many school projects were entered in the Edmonton Exhibition, two gained "Awards of Merit". The school children won 67 prizes at this exhibit.

The annual School Christmas concert was presented one week prior to Christmas and was attended by many of the citizens of Red Deer as well as many of the children's parents. It was felt that this open invitation to the local community was a continuing step in maintaining good rapport between the school and the community.

One hundred and fifty-six pupils attended the school

program during the year and nine graduated.

The Sense Training area (junior school) had in daily attendance 99 children. From the sense training program the children were evaluated for the type of education that was anticipated for them, as well as preparation for promotion to the intermediate school. Ten children were promoted on this basis. The full number of children in attendance during 1967 was 115.

The Vocational Training Department continued as a means of adjunct training to the academic program. During the year 19 classes were held weekly. Two hundred and forty-seven students attended these classes. Among the major items built were three Fireball Sailing Boats, a Record Cabinet made for the Red Deer Centennial Library and Record and Amplifying Cabinets for the lounge at the School's Curling Rink. Numerous small articles of furniture and children's furniture were manufactured as well as games, stools and coffee tables. In addition a wide variety of outdoor furniture was also produced which included picnic sets, picnic tables, children's patio furniture, bird houses, chairs and one hot house.

The Occupational Therapy Department operated as in previous years and many patients benefited through attendance. During the year 196 patients attended occupational therapy classes. Occupational therapy classes also included instruction in cooking and sewing classes for trainees. Eight hundred projects were completed and since many of these were multiple projects, in all, in excess of 1,500 items were produced. The school entered 129 of these items in the Calgary and Edmonton Exhibitions and won 104 prizes, viz; 47 Firsts, 36 Seconds and 21 Thirds.

They also earned two Grade Award prizes in the rug section for best design and workmanship.

The School was asked to and exhibited at the Red Deer Fair and the Central Alberta Horticultural and Flower Show

As in previous years, sales were held on the produced articles from the Occupational Therapy and Vocational Training Departments and sold to the general public and staff. These sales netted \$4.529.72.

The farm training program carried out maintained the impetus of previous years. Sixteen boys participated in this program for intensive training and this was augmented during the summer months by many boys of the severely retarded category who proved useful, particularly in the garden program section of the farm.

The farm training included tractor driving, harvester machine operation, as well as animal husbandry. The boys also showed several of the school cattle at the Red Deer Fair and assisted in the feeding and grooming of these cattle while they were at the fair. The intensive training section of the farm classes also attended the Red Deer Fair to examine machinery and livestock displays and attended seminars explaining the proper utilization of a wide variety of farm equipment.

#### **DENTAL CARE**

The School employed a dentist in conjunction with Deerhome who spent alternate weeks working at Alberta School Hospital and Deerhome. In view of the general lowering of the median age for this school and need for more intensive dental work, consideration was given towards providing Alberta School Hospital with a full-time dentist.

#### X-RAY AND E.E.G. DEPARTMENT

During the year, with the acquisition of an X-ray Technician, 2,474 X-rays were carried out at this School; 1,017 for Alberta School Hospital, 948 for Deerhome and 509 dental X-rays. In addition, 86 E.E.G. tracings were carried out as referrals from Deerhome, general practitioners from Central Alberta and Alberta School Hospital. This was an increase of 62 tracings over 1966.

#### **LABORATORY**

During the year 9,276 laboratory procedures were carried out at Alberta School Hospital and 776 laboratory requests were referred to a commercial laboratory. Two thousand, one hundred and forty-six bacteriological specimens were sent to the provincial laboratory for diagnosis and classification.

#### **EXTRA MURAL ACTIVITIES**

As during previous years, staff members were called upon by public groups for talks on mental deficiency, methods of treatment and the program being carried out at Alberta School Hospital. The school was visited by the Honourable Minister of Health, members of the Alberta Guidance Clinics and Glenrose Hospital, as well as the Director and Assistant Director of the Division of Mental Health. Graduate and senior nurses from the University Hospital also visited the school for clinical rounds.

A Centennial railway was initiated and planned, two-thirds of a mile of railway track was laid and a railway locomotive and two coaches with a total capacity for 40 passengers were constructed. The Honourable Minister of Health honoured the school by driving in the final spike to this railway and navigated the train as Chief Engineer the first two circuits around the track. The costs for the materials for the train were provided by the Parent-School Organization. This group held four meetings at the school during the year to discuss the needs of the children, as well as participating in clinical seminars presented on their behalf.

#### SOCIAL SERVICE DEPARTMENT

The Social Workers interviewed all parents whose children were admitted to the school during the year, as well as investigating work placement situations for children who are likely to be discharged. Personal problems of trainees who had been discharged recently and in recent years were also investigated and counselling provided wherever necessary.

#### DIETARY DEPARTMENT

In the absence of a Dietitian, the diet of patients and staff came under the direct supervision of the Superintendent. The diet provided was ample, well balanced and generally well-liked. The augmentation and variety of foods was greatly enhanced with the addition of a new greenhouse, as well as utilizing produce from the vegetable acreage.

#### LAUNDRY AND LINEN REPAIR

Laundry

The operations of this department proved fairly satisfactory during the year. The capacity of the plant was adequate. The finishing of personal clothes presented some problems due to the varied types of clothes supplied by parents. The operation of the dry cleaning plant helped considerably in this respect.

The washing, cleaning and finishing of staff uniforms was a large part of the laundry operation.

The weekly average of pounds washed showed a slight increase from 43,900 in 1966 to 44,500 in 1967.

The use of separate vehicles for the pick up of soiled linen and the delivery of clean linen was instituted in an effort to reduce villa cross-infection.

Linen Repair

The linen repair staff functioned smoothly and provided service in the areas of staff uniform mending, manufacturing of drapes, mattress covers and items of personal clothing not normally available through regular purchasing channels.

Some good quality made-to-measure dresses were made for trainees who were either hard to fit, or as was more often the case, had insufficient funds to purchase clothing for themselves.

#### **STORES**

The provision of adequate budgets and the normal availability and delivery of all items enabled this department to function smoothly and efficiently. A major improvement was the completion of the renovation of the old main kitchen area in the main building for use by the Stores Department.

#### **FARM**

Fewer acres were seeded to grain than in former years due to the sale of a quarter section of rented land. Due to this fact and to the lateness of the spring, only oats and barley were seeded. Oat crops were well above average and barley about average. A very warm dry fall enabled these crops to be harvested in very good condition. First cut hay yielded better than last year, but second cut was poor due to dry weather in the late summer and fall.

#### DAIRY CATTLE

Milk production reached its highest peak during the year. This followed the national trend and was due mainly to dairy cattle breed improvement plans widely practiced throughout North America.

#### **HOGS**

The number of hogs raised was reduced due to the tearing down of the old log building used at one time for horses. The Federal Government paid premiums on Grade "A" hogs used for home consumption as well as on those for sale. This helped the School's operation as it was able to keep a constant check on meat quality without having to sell hogs at intervals throughout the year in order to determine "Grade".

#### **POULTRY**

Production average for eggs did not vary greatly from the past few years. Size and shape of eggs appeared to be satisfactory.

#### **BEEF HERD**

The size of the herd remained fairly constant at between 30 and 40 head. This number was, of course, dictated mainly by the amount of pasture available. The school fed-out most of its Holstein bull calves as well as its Herefords.

#### GARDEN

Vegetable crops yielded quite well in spite of hot dry weather during the latter part of the summer. Harvest weather was very good, but many vegetables did not keep well. This condition was prevalent in many areas of the province. The construction of a new greenhouse enabled the school to increase its tomato crop considerably. New cold frames, with steam heating, were also constructed and were made available for use for the next crop year.

#### **GROUNDS**

The landscaping was completed at the new Female Staff Quarters. The tennis courts started last year were finished, but some landscaping was still required in this area. Construction of a 2/3-mile of model railway was completed early in September and the train was in operation until the weather became too cold. Trees were obtained from the Department of Agriculture last spring and planted in the area west of Willow Villa where trees had been destroyed to obtain fill for new road across the 55th street coulee. These trees were quite small in size and it may be some years before they are noticeable. This area was also sown to grass. A road grader was obtained from the Department of Highways for the winter months on a rental basis to be used for snow clearing of school grounds.

#### GENERAL OPERATIONS – FARM AND GARDEN

Problems were still encountered from trespassing and acts of vandalism. It was not possible to leave portable granaries or bale stacks in fields adjacent to city dwellings due to frequent damage sustained. Empty bottles were thrown into the fields doing considerable damage to tires on tractors and equipment. Large dogs were allowed to run loose and were a continuing source of harrassment to livestock. Fences were damaged from time to time, allowing stock to wander onto roads and streets.

With the growth in size of Alberta School Hospital over the past number of years wet garbage for hog feeding exceeded requirements. The excess amount had to be hauled to the city dump. The installation of a garbage disposal unit was considered for future development.

#### MAINTENANCE AND RENOVATIONS

Extensive maintenance was done throughout the institution and farm to maintain the present buildings. A new machine shed was constructed and additional street lighting installed as well as work on the sidewalks, curbs and roads.

#### **APPRECIATION**

The Superintendent would at this time like to express his deep appreciation to the staff members of Alberta School Hospital for their devoted work and high measure of co-operation which was shown throughout the year; to the Honourable Minister of Health for his continuing sympathy with the School's endeavors and to the Director and Assistant Director of the Division of Mental Health who were always available and resourceful in providing help and advice when required to cope with any problems which arose during the year.

TABLE 1

ALBERTA SCHOOL HOSPITAL, RED DEER
MOVEMENT OF FEEBLEMINDED POPULATION

MOVEMENT OF PERDIE	TATTAT	TILD I	OI OH	11101		
				M	F	T
Defectives on Books of Institution as of 31st December, 1966	********			514	408	922
ADMISSIONS:	M	F	T			
1. First Admissions:		40				
Voluntary	73 10	46 4	119 14			
3. Transfers	_					
Total number of admissions	83	50	133			
Total littliber of autilissions		_		83	50	133
Total Number of Defectives on the Books during 1967			*******	597	458	1055
SEPARATIONS:						
1. Discharges	32	14	46			
2. Transfers	13 11	1 7	14 18			
Total number of separations	56	22	78	56	22	78
Defectives on the Books of the Institution at 31st December, 1967				541	436	977
institution at 51st December, 1967	*********			241	400	

TABLE 2

ALBERTA SCHOOL HOSPITAL, REDDEER

AGE OF RESIDENT POPULATION CLASSIFIED WITH REFERENCE TO MENTAL STATUS

	I	DIOT		IM]	BECIL	Æ	M	MORON		BOR	DERL	INE	TOTAL		
	M	F	Т	M	F	Т	М	F	Т	М	F	Т	М	F	Т
0 - 4	18	12	30	10	17	27	1	2	3	-	-	1	29	31	60
5 - 9	29	30	59	96	56	152	24	8	32	1	-	1	150	94	244
10 - 14	32	31	63	105	76	181	45	19	64	4	2	6	186	128	314
15 - 19	10	8	18	54	58	112	40	26	66	-	1	1	104	93	197
20 - 24	4	9	13	16	18	34	16	14	30	1	-	1	37	41	78
25 - 29	2	11	13	8	7	15	5	5	10	1	-	1	16	23	39
30 - 34	5	3	8	5	2	7	1	-	1	-	-	-	11	5	16
35 - 39	1	-	1	-	1	1	-	-	-	-	-	-	1	1	2
40 - 44	2	4	6	3	2	5	-	1	1	-	-	-	5	7	12
45 - 49	-	2	2	-	-	-	-	1	1	-	-	-	-	3	3
50 - 54	-	2	2	-	2	2	-	1	1	-	-	-	-	5	5
55 - 59	-	2	2	-	1	1	-	-	-	-	-	-	-	3	3
60 - 64	-	-	-	1	2	3	-	-	-	-	_	-	1	2	3
65 - 69	-	_	-	-	_	-	-	-	-	-	-	-	-	-	-
70 - 74	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1
TOTALS	103	114	217	299	242	541	132	77	209	7	3	10	541	436	977

TABLE 3

ALBERTA SCHOOL HOSPITAL, RED DEER

MENTAL STATUS OF FIRST ADMISSIONS, RE-ADMISSIONS
AND TRANSFERS

MENTAL STATUS	FIRST ADMISSIONS			RE-ADMISSIONS			TRANSFERS			TOTALS		
	M	F	T	M	F	T	M	F	T	M	F	T
IDIOT	16	22	38	1	-	1	-	- 1	-	17	22	39
IMBECILE	34	15	49	5	3	8		-	-	39	18	57
MORON	22	8	30	4	1	5	-	-	-	26	9	35
BORDERLINE	1	1	2	-	-	-	-	-	-	1	1	2
TOTALS	73	46	119	10	4	14	-	_		83	50	133

TABLE 4

ALBERTA SCHOOL HOSPITAL, RED DEER

AGE GROUP OF FIRST ADMISSIONS, READMISSIONS AND TRANSFERS

AGE		FIRST ADMISSION		RE-ADMISSIONS			TRANSFERS			TOTALS		
GROUP	M	F	T	M	F	Т	M	F	T	M	F	Т
0 - 4	24	17	41	1		1	-	-		25	17	47
5 - 9	26	16	42	6	2	8	-	-	-	32	18	50
10 - 14	19	13	32	2	1	3		-	-	21	14	3.5
15 - 19	4	-	4			-	-			4		4
20 - 24	-	-	-	- 1	-	1		-		1		
25 - 29	-	-	-	-	1	1	-	-	-	-	1	
30 - 34	-	-	-	-	-	-	-		-		-	
												-
TOTALS	73	46	119	10	4	14		-	-	83	50	13

TABLE 5
ALBERTA SCHOOL HOSPITAL, RED DEER
CAUSES OF DEATH

Cause of Death	Male	Female	Total
Aspiration of Vomitus	2	_	2
Massive Cerebral Hemorrhage	1	_	1
Congenital Hydrocephalia	1 1 2	_	1
Bronchopneumonia	2		2
Hydrocephalus		1	1
Status Epilepticus	1		1
Pneumonia		1	1
Epilepsy Syncope		î	1
Nephritis		ı î	ī
Acute Thyrotoxicosis	7		ī
Acute Inyrotoxicosis			-
Cerebral Agenesis with Internal	- 1		7
Hydrocephalus	1	_	1
Meningitis—Hydrocephalus		_	7
Congenital Myopathy		7	4
Hydrocephalus—Epilepsy	т т		4
Septicemia		1	1
Pathological Fracture of Spine T 1, 2,			
Respiratory Distress, Aspiration			
Pneumonia		1	1
TOTALS	11	7	18
		-	

### TABLE 6 ALBERTA SCHOOL HOSPITAL, RED DEER DEATHS BY INTELLIGENCE LEVELS

Classification	Male	Female	Total
Idiot	6	3	9
Imbecile	2	1	3
Borderline		_	
TOTALS	11	7	18

### TABLE 7 ALBERTA SCHOOL HOSPITAL, RED DEER DENTAL CARE

Examinations	1861
Restorations (fillings of all types)	145
Extractions	344
P.E. Treatments	213
Scalings and Prophylaxes	188
Dentures, Partial and Adjustments	50
X-rays	509
Work done under General Anaesthetics	26
Miscellaneous Treatments	258
Crowns and Bridges	10

# DEERHOME, RED DEER J. M. Brown, M.B., Ch.B., D.P.H., Medical Superintendent

#### MOVEMENT OF RESIDENTS

The number of patients in residence on 31st December, 1966, was 1,219 of whom 666 were male and 553 were female. On 31st December, 1967, the number of patients in residence was 1,228 of whom 682 were male and 546 were female. The details are as set out in Table 1. In addition, 132 patients were still out on leave of absence (80 male and 52 female).

During the year, under The Mental Health Act, the status of 15 patients was changed from Voluntary to Certificate and the status of five patients was changed from Certificate to Voluntary.

#### **GENERAL HEALTH**

The general health of the patients was maintained at a satisfactory level, bearing in mind the numerous chronic conditions and disabilities which prevailed throughout the institution.

The Director of the Alberta Guidance Clinic, Red Deer, visited once per week in the capacity of consultant to assess and treat those patients with psychiatric and

emotional problems. He made rounds of the wards and was also available to discuss with the staff any minor problems within the institution.

Medical care was provided by the Parsons Clinic and full-time medical staff; approximately 132 patients per week were seen by the doctors for varied ailments, medical and surgical consultations and accidents. The consultant surgeon made six visits and 47 patients were presented for surgical consultation. Forty-nine patients were admitted to the Red Deer General Hospital for surgery; 18 had minor surgery and 31 had major surgery performed. Ten patients were admitted to the Red Deer General Hospital for observation and treatment. Two patients had minor surgery at Parsons Clinic and four patients were admitted to the Alberta School Hospital, Red Deer, for surgery, two minor and two major.

Three patients were admitted to the Richard Parsons Auxiliary Hospital, all being transferred from the Red Deer General Hospital for long term care following fracture of the femur.

Three patients attended the Cancer Clinic, Edmonton, for follow-up assessment and advice. In all, four visits were made.

At the request of Parsons Clinic, seven patients were transferred to Alberta Hospital, Edmonton, for treatment which it was considered advisable to be undertaken in an active treatment Government hospital rather than the local general hospital. Five of these were medical cases and two were for psychiatric treatment. Eleven patients were transferred to Alberta Hospital, Ponoka, six for psychiatric treatment, one for medical care, and three patients for surgery following which they were returned to Deerhome. One patient from the Alberta Hospital, Ponoka, had surgery at the Red Deer General Hospital and returned to Ponoka after convalescence at Deerhome.

There were 39 routine admission chest X-rays of patients admitted to Deerhome. There were 323 diagnostic X-rays taken and a further 103 chest X-rays were taken at the Alberta School Hospital and Parsons Clinic.

Sixty-six patients were examined by the optometrist and 58 of these were fitted with glasses. There were 192 pairs of glasses repaired. Thirty-nine visits were made to the local ophthalmologists for special examination and treatment.

Ten patients had electroencephalogram examinations and 23 patients had electrocardiogram examinations.

Twenty patients were presented and one case was re-presented to the Eugenics Board all of whom were passed by the Board for surgery. Eugenics surgery was carried out on 20 patients at the Alberta School Hospital.

The Laboratory department did routine blood work and urinalyses on every patient in the institution once per year, as well as numerous tests ordered by the consultant physicians. All patients on tranquilizers and epileptic medications had urinalyses, white blood counts and haemoglobin estimations undertaken more frequently. A total of 8,344 laboratory tests were done at Deerhome. In addition, 1,321 tests were done by outside laboratories,

Dental Clinics were held regularly, 118 clinics in all. A total of 1,602 patients were seen, 220 fillings were done

and numerous treatments were carried out. There were 621 extractions, a proportion of which were carried out under local anaesthetic. Thirty-three patients required general anaesthetics which were carried out at the Alberta School Hospital. Nine patients were supplied with new dentures and 134 dental plates were repaired and adjusted.

Patients received routine administration of T.A.B.T. vaccine, poliomyelitis vaccine, Schick tests and diphtheria immunization where required. This involved some 2,353 immunization procedures.

There were 12 cases of infectious hepatitis. Four patients were found to have throat swabs showing diphtheria organisms, but no symptoms of this disease. Following treatment all were reported negative on further and repeated testing. Notifications were made to the Medical Officer of Health as required.

#### ACCIDENTS AND ELOPEMENTS

Thirty-eight fractures resulted from accidents. During the year 22 patients eloped, ten being out overnight.

#### OCCUPATIONAL THERAPY

The total number of patients attending occupational therapy classes was approximately 285 daily; of these, approximately one-third were male patients.

Many articles were made in woodwork, leather, rugs, basketry, ceramics, embroidery, knitting and hand weaving, which were of a very high standard. In addition, there were many occupational therapy classes held on the wards for those patients incapable of doing intricate handwork or of concentrating for long periods, and for many aged and infirm patients who were unable to make the trip to Beaver House without being exposed to severe weather conditions and possible accidents due to icy sidewalks.

Forty-eight articles were entered in the Red Deer Fair for which 46 prizes were awarded.

The annual Tea and Sale held in November met with its usual outstanding success and all but a few small articles were sold.

Many patients were able to work for nominal payment at selected places of employment, under supervision. There were 20 to 30 boys working out on a daily basis, from 1st May to 1st October, and 33 boys worked out on a monthly basis for an average of seven months of the year. A total of 4,275 working days were accomplished on a daily basis and approximately 230 months for the boys who worked out on a monthly basis. A total of 38 girls worked out on a daily basis and nine on a monthly basis.

Approximately 398 male and female patients assisted with the routine work in various departments of Deerhome, such as laundry, kitchen, stores and male and female staff residences, as well as working at various seasonal occupations. The quality of their work varied tremendously but the basic need of the patient to fulfil some occupation was considered of primary importance. There is an urgent need for some form of financial incentive to be made available for patients who work in Deerhome.

#### **RELIGIOUS SERVICES**

With the exception of July and August, weekly non-denominational services were held each Sunday in Beaver Hall for the Protestant patients.

Roman Catholic Mass was held for Roman Catholic and Greek Catholic patients each month.

All clergy were most co-operative in visiting the very sick patients when requested.

#### PATIENTS RECREATION PROGRAM

An excellent recreation program was followed throughout the year with careful consideration being given to each patient's limitations, both mental and physical.

1. Walking parties (weather permitting) were carried out daily with as many patients participating as were

physically fit to do so.

- 2. Physical fitness classes were carried out routinely with ingenious methods used to activate the wheelchair patients.
- 3. Swimming classes were attended three times weekly at the downtown swimming pool.
- 4. Skating took place on the Deerhome rink and a number of boys took part in hockey games.
- 5. Many of the patients were able to take part in bowling at the downtown bowling alley.
- 6. During the summer, regular bike riding parties were taken out. The patients also participated in tennis and badminton.
- 7. During the winter, tobogganing proved a favourite sport.
- 8. Other pastimes enjoyed in the Recreation Hall were square dancing and round dancing.
- 9. Inside games included bingo, table tennis, cribbage and card parties.
- 10. Other numerous entertainments enjoyed were film shows, professional hockey games downtown, professional football games in Edmonton, concerts both at Deerhome and downtown, bus rides and picnics, including trips to the Calgary Zoo and the Alberta Game Farm, and tours to see the Christmas lights. There were record hops and dances at Deerhome and many patients benefited from dancing instruction. The patients continued to derive much pleasure from television sets, radios, record players and pianos.

The Annual Deerhome Fair was held in August and approximately 956 patients were able to attend. The Annual Picnic was held on Dominion Day and approximately 800 patients attended. These occasions were especially enjoyable as there were very few patients who were not able to participate.

The Red Deer Parade and Fair was attended by 475 patients and 217 patients attended the afternoon performances.

The Christmas season brought many extra treats for the patients. Under the organization of the Recreation Director, the talented patients put on an excellent show for the rest of the patients. Several outside groups kindly visited Deerhome and contributed to the Christmas entertainments. These festivities continued over the New Year's holiday. Approximately 205 patients were able to go home and spend Christmas holidays with their families.

The Recreation staff consisted of four men and seven women. There was a total of 119,056 attendances for special activities and the total yearly attendance, including all activities, was 165,419. Plans were made to expand the recreation program to motivate more of the patients with multiple disabilities and also to ensure that this type of patient would receive the maximum amount of fresh air and sunshine during the summer months.

#### GARDEN AND GROUNDS

The institution had 28½ acres of landscaped grounds containing 3,000 shrubs and trees, and two-and-a-half miles of sidewalks to be maintained by a staff of eight men. This proved to be inadequate during the summer months. Eighty-nine patients were occupied in the greenhouse and grounds during the summer and it was felt that more patients would have been able to benefit from this type of therapy if more summer relief staff had been available to give the required amount of supervision.

Eighteen thousand bedding plants were raised and transplanted in the grounds, making a delightful display for the enjoyment of both patients and visitors. Nine hundred potted plants were raised to make a year-round source of beauty within the institution.

There were 250½ tons of produce grown and stored in the root cellars for winter use.

#### **KITCHEN**

There were 45 personnel employed in the kitchen, of whom 22 were women and 23 were men. Thirteen patients helped in the kitchen and bakery. A total of 33,621 meals were served per week -28,770 normal diets, 1,491 special diets and 3,360 staff meals. In addition 10,703 evening lunches per week were provided.

A total of 700 loaves of bread per day was baked on the premises, of which 200 loaves per day and 80 dozen buns per week were sent to the Alberta School Hospital.

#### **LAUNDRY**

Personnel included 26 women and six men. Patient help varied between 40 and 50 per day. Each week, 75,860 pounds of linen were laundered, an increase of 11,555 pounds per week over last year.

A six-day week was instituted in August, 1967, in order that adequate supplies of clean laundry would be available for the patients on the various wards.

#### **SEWING ROOM**

There were 23 female staff employed in this department who were assisted by three or four female patients. The largest percentage of the staff's time was spent in repairing clothing and linen. Three staff were responsible for fitting, altering and issuing uniforms.

#### **STORES**

Three male staff were employed in this department and the patient help varied from six to eight male patients a day. The amount of stores issued was \$557,648 which was an increase of approximately \$15,142 over last year. Cleaning materials cost \$31,722, an increase of \$3,022 over 1966.

#### **STAFF**

The health of the staff remained at a satisfactory level, and absenteeism due to sickness and accidents remained within normal limits.

All staff received T.A.B.T. vaccine and poliomyelitis vaccine routinely. This involved 1,957 immunization procedures.

Domestic staff and dietary staff had throat, nose and stool cultures done routinely.

Arrangements were made for routine chest X-rays to be taken of all presently employed staff, and of all staff on commencement of employment. A total of 795 X-rays were taken in this connection.

The staff turn-over for the year was comparable to previous years. Some difficulty was experienced in recruiting into male and female nursing positions requiring particular qualifications. Re-classification of some of these positions allowed recruitment of personnel with lesser qualifications.

Summer relief was adequate for the months of June, July and August but many employed in this capacity left early in September in order to resume university studies. Vacation leave for some staff had not been completed by this time and consequently a temporary staff shortage resulted.

Eighteen new permanent positions were created and five permanent positions were abolished.

#### IN-SERVICE EDUCATION PROGRAM

The In-Service Education Program was commenced in February, 1967. This program covered basic nursing care and was given for a period of six weeks. The instruction was both theoretical and practical. One staff member from each ward was assigned to each course. In 1967, five courses were held and these will be continued in 1968.

Longer indoctrination courses for new staff were planned with a view to holding courses of two-week duration at frequent intervals.

Courses of these types are essential to maintain good standards and to promote better care. Adequate instructional staff is essential.

#### VISITORS

The Director and Assistant Director of the Division of Mental Health visited periodically.

The Board of Visitors made an extensive tour of Deerhome.

The Scientific Planning Committee of the Canadian Mental Health Association met at Deerhome early in the year.

A conference of Medical Superintendents, Matrons, Business Managers, Personnel Staff and Accountants was held at Deerhome early in the year.

The Association of Psychiatric Nurses and the Red Deer Personnel Association held several meetings at

Special visits were made by several groups, including many university students, students from local schools, Red Cross nurses, representatives from Associations for Retarded Children, Safety Personnel and a Newspaper Association.

Medical students from the Alberta Hospital, Ponoka, attended from time to time.

TABLE 1

DEERHOME, RED DEER

MOVEMENT OF BATTLENT POPULATION

IENT	POPU	LATIO	NC		
M	F	T	M	F	T
			666	553	1219
13 5 15		11 13 6 31 3 437			
308	193	501	308	193	501
			974	746	1720
273 9	2 179 7 8 4 —————————————————————————————————	452 16 11 7 492	200	200	492
	_		292	200	492
1967			682	546	1228
	M 5 13 5 15 2 268 308 — 4 4 273 9 3 3 3 3 — 2992 —	M F  5 6 13 - 15 15 16 2 1 268 169 308 193	5 6 11 13 — 13 5 1 6 15 16 31 2 1 3 268 169 437 308 193 501 	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	M F T M F  5 666 553  5 6 11 13 - 13 5 1 6 15 16 31 2 1 3 268 169 437 308 193 501 308 193 501 308 193 501 273 179 452 9 7 16 3 8 11 3 4 7 292 200 492 - 292 200

## TABLE 2 DEERHOME, RED DEER ORIGINAL DIAGNOSIS ON ADMISSION TO MENTAL HOSPITAL

IdiocyImbecile		171 596
Moron		266 32
Borderline Intelligence		60
Mental Deficiency with Psychoneurosis	***************************************	1
Mental Deficiency, Unspecified		15
Schizophrenia		61
Manic Depressive		5 12
Psychosis with Convulsive Disorder		2
Psychosis with Organic Brain Disorder		2
Traumatic Psychosis		_
Idiot	2	
Imbecile	28	
Moron	38	
Borderline	2	
Other	53	123
Epilepsy Congenital Syphilis		2
Neurosyphilis		2
Post Encephalitis	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9 2 2 1
Syphilis		1
отриню		
		*1360

\*This total includes 132 patients who were on Leave of Absence from Deerhome on 31st December, 1967.

TABLE 3
DEERHOME. RED DEER
CAUSES OF DEATH
ABRIDGED INTERNATIONAL CLASSIFICATION

ABRIDGED INTERNATIONAL C			
risease	Male	Female	Total
Il Other Diseases Classified as Infective and Parasitic	1	_	1
Ialignant Neoplasms, including Neoplasms of Lymphatic and Haematopoietic tissues	_	1	1
'ascular Lesions Affecting Central Nervous System	1	_	1
rteriosclerotic and Degenerative Heart Disease	2	2	4
neumonia	4	4	1
Il Other Diseases	1		
OTALS	9	7	16

# TABLE 4 DEERHOME, RED DEER CLASSIFICATION OF DEATHS ACCORDING TO ORIGINAL PSYCHIATRIC DIAGNOSIS

Disease  Mental Deficiency Mental Deficiency with Psychosis Mental Deficiency with Epilepsy Borderline Intelligence	Male 5 2 1 1 1	Female 6 1 —	Total 11 3 1
TOTALS	9	7	16

# UNIT FOR EMOTIONALLY DISTURBED CHILDREN LINDEN HOUSE, RED DEER

The general program of this facility was unchanged. Six children were admitted and eleven were discharged. Although there was a lesser demand for admission, this unit provides a valuable treatment program for emotionally disturbed children.

#### LINDEN HOUSE EIGHTH ANNUAL REPORT RED DEER L. J. le Vann, L.R.C.P. Edin., L.R.C.S. Edin., L.R.F.P.S. Glas., Superintendent

### IN RESIDENCE, ADMISSIONS, RE-ADMISSIONS, TRANSFERS, DISCHARGES

During 1967, 22 children resided at Linden House; 15 males and seven females. During the year there were five new admissions and one re-admission. Eleven children were discharged during the year; nine males and two females. One child was transferred from Linden House to Alberta School Hospital on the basis that an evaluation of this child in residence clearly indicated that she was mentally retarded rather than emotionally disturbed.

#### REQUESTS FOR ADMISSION

There were three applications received for admission which were not accepted on the basis that two of them, males, had an exceptional history of fire setting and it was felt that the facilities, particularly an open setting such as Linden House presented, would make the admission of these boys a highly dangerous one for the other children at Linden House. A third boy was refused admission as he had already exceeded the age limit for admission to Linden House.

The major problem of the children in residence at Linden House which emerged was that the vast majority of these children come from areas where there was great socio-economic impoverishment. This could not be taken in the strict literal sense that in every circumstance were these children all economically impoverished, although in many cases this was so, but in the main, these children presented a picture of a severely disorganized familial environment. Amongst the important factors were psychoneurotic parents, even to the extremes of psychosis, drunkenness in one or both of the spouses, families on welfare rolls, as well as parents who had not made the adjustment to intelligent parenthood.

The problem which Linden House continued facing was what to do with these children when they had reached a normal acceptable plateau of behaviour. Indeed many received sufficient educational rehabilitation to attend the schools in downtown Red Deer yet it was necessary to continue their care at Linden House, principally due to the fact that the home settings would quickly have undone any improvement which had been effected with these children.

#### THERAPY PROGRAM FOR CHILDREN

The therapy program attempted to cope with the antisocial reactions that these children developed as a result of hostile environmental factors. On this basis there were initial programs instituted for each child of individual psychotherapy and as a child developed greater inter-peer relationships, he was included in bi-weekly sessions of group ethics and the children's weekly parliament. In the latter meeting, children under the direction of their own prefect, discussed the week's events at Linden House, the behaviour of one another and methods which might be utilized by offenders to correct unsuitable attitudes and behaviour. Similarly, children whose behaviour was ideal and who made a genuine effort were singled out by the children themselves for praise, encouragement and reward by being elected to various governing offices insofar as Linden House was concerned.

Linden House which operated as an open door setting since its inception had the experience of two of the boys eloping. It was interesting to note that one of these boys represented a youngster who had been at Linden House for over five years, was initially a Ward of the Department of Child Welfare and had come to regard his stay at Linden House, after all these years, as quite hopeless, feeling that there was no place for him to go and that there was little future for him. He was easily encouraged to elope by another boy who had shown a chronic character disorder (socio-pathic personality). He too had been at Linden House over three years and gave as his reason, the futility of continuing here any longer.

During the year ten children had sufficiently recovered in their attitudes and habit patterns to be able to attend the regular Red Deer school system in the City of Red Deer.

#### TRAINING PROGRAM FOR NURSES AND ATTENDANTS

Linden House was incorporated at its onset as a continuing training area for the senior student nurses and attendants of Alberta School Hospital. They spent at least a three-month period at Linden House as part of their training program.

As in previous years, two weekly conferences were held with all the therapy and nursing staff at Linden House, during which the progress of each child was discussed, solutions to problems sought and new forms of treatment evolved.

#### **EXTRA MURAL ACTIVITIES**

Extra mural activities for the children were varied and interesting. They are enumerated as follows:

At Easter time all the children visited the Bentley Ski Hill and the boys went ice fishing at Pine Lake.

During the spring of the year the children had the opportunity of visiting the Fire Hall, Court House and Optical Laboratory in the City of Red Deer.

At the close of the school term in June the children travelled to Calgary as a special reward and spent the entire day at Happy Valley.

All the children attended summer camps and enjoyed weekly picnics and outings to Gull Lake, Burbank, Blindman River, Red Deer Canyon and Kin Canyon during clement weather.

All children spent at least one and some two days at the Red Deer Fair.

In the fall of the year a tour of the New Centennial Red Deer Public Library was enjoyed by the children.

During December many of the children were able to be taken around the city to see the Christmas lights and decorations and as well participated in outside activities and tobogganing.

#### **VISITING BOARD AND VISITORS**

During the year, as in previous years, Linden House received many visits from medical students, nurses and teacher groups. In addition, Linden House was honoured by several visits by the Honourable Minister of Health, as well as the Director and Assistant Director of the Division of Mental Health.

The Board of Visitors visited Linden House on October 17th and interviewed staff and children.

#### APPRECIATION

The Superintendent would like to express his appreciation to senior and junior staff members at Linden House, all of whom worked beyond the call of duty in the interest and concern they developed for their patients. There was little doubt that the home atmosphere, general friendliness and warmth shown towards the children by the staff members in no small way contributed to the children's marked and rapid improvement.

The Superintendent would also like to thank the Honourable Minister of Health for his sympathetic consideration for needs at Linden House and to the Director and Assistant Director, Division of Mental Health, for their understanding and close co-operation in all matters relating to the efficient function of this unit.

TABL LINDEN HOUSE MOVEMENT OF	E, REI					
Children on Books of Linden House	M	F	T	M	F	T
as of 31st December 1966				11	5	16
ADMISSIONS:						
First Admissions—Voluntary	4	1	5			
Re-Admissions Transfers			1			
Total Number of Admissions	4		6			
				4	2	6
Total Number of Children on Books during 1967				15	7	22
SEPARATIONS:						
Discharges	9	2	11 1			
Total Number of Separations	9	3	12	9	3	12
Children on Beales of Yanta av						
Children on Books of Linden House at 31st December, 1967				6	4	10

TABLE 2
LINDEN HOUSE, RED DEER
MENTAL STATUS OF FIRST ADMISSIONS, RE-ADMISSIONS AND TRANSFERS

MENTAL STATUS	AD	FIRS MISS		AD1	RE-	ONS	TRA	NSFE	ERS		TOTAI	_
	M	F	T	M	F	T	M	F	T	M	F	T
Adjustment Reaction												
to Childhood	2	_	2	_						2	_	2
Juvenile Autism	1	******	1	-	_	_	-			1		1
Schizophrenic Reaction,		-	-								-	
Schizo-affective type		T	1		_		_	_			Т	7
Behavioral Reaction	1		1							1		1
Acute Brain Syndrome Associated	_		-									-
with Convulsive Disorder		-		_	1	1					1	1
					—					_	—	_
TOTALS	4	1	5		1	1	_	—	_	4	2	6

TABLE 3
LINDEN HOUSE, RED DEER
AGE GROUP OF FIRST ADMISSIONS, RE-ADMISSIONS AND TRANSFERS

AGE GROUP	AD	FIRST MISSI	ONS	AD	RE- MISSI	ONS	TR.	ANSFI	ERS		TOTA	L
	M	F	T	M	F	T	M	F	T	M	F	T
5 - 7	1	_	1			_		-	_	1		1
8 - 9	_	-	_		_			-				-
10 - 12	2	1	3	_	1	1	_	_		2	2	4
13 - 14	1	_	1		-	_	No.	_	_	1	_	1
	_							-	-	_		
TOTALS	4	1	5		1	1		_	_	4	2	6

### THE EUGENICS BOARD

The Eugenics Board for the Province of Alberta held 10 meetings during the year 1967. These meetings were held at the Alberta Hospital, Edmonton; Alberta Hospital, Ponoka; Alberta School Hospital, Red Deer; and Deerhome, Red Deer. The dates of the meetings held during 1967 were as follows:

10110 443.	
March 14	Alberta School Hospital, Red Deer
March 14	Deerhome, Red Deer
March 15	Alberta Hospital, Edmonton
May 17	Alberta Hospital, Edmonton
September 12	Deerhome, Red Deer
September 12	Alberta School Hospital, Red Deer
September 12	Alberta Hospital, Ponoka
September 13	Alberta Hospital, Edmonton
November 21	Alberta School Hospital, Red Deer
November 22	Alberta Hospital, Edmonton.

The Board considered a total of 89 cases, 82 of which were passed for surgery. Four cases were deferred because they did not fall within the scope of The Sexual Sterilization Act and three cases were represented. Of the 82 cases which were passed by the Board in accordance with The Sexual Sterilization Act (1955-C.311,S.5), 27 were male and 55 female. Of this number 19 were passed subject to their own consent.

Of the 82 cases passed by the Board during the year, 60 had first been examined at an Alberta Guidance Clinic, although some of these had been institutionalized prior to presentation. This group of 60 cases was made up of 23 males and 37 females.

#### **OPERATIONS**

Operations were performed on 97 cases during the year, 34 being male and 63 female. All of these operations were performed at the Alberta Hospital, Edmonton; Alberta Hospital, Ponoka; and Alberta School Hospital, Red Deer.

The surgical operations mentioned above were performed by the surgeons of the Board, Dr. J. Ross Vant of Edmonton and Dr. R. M. Parsons of Red Deer.

#### **BOARD CHANGES**

In May Mr. H. E. Panabaker of Calgary resigned as a member of the Eugenics Board. He was replaced on August 1 by Dr. W. R. N. Blair of Calgary.

#### APPRECIATION

As in previous years the Eugenics Board wishes to express thanks and sincere appreciation to the Director and Assistant Director, Division of Mental Health, to the Medical Superintendents and their staffs, to the surgeons, and to the Guidance Clinics for their co-operation in connection with the work of the Board.

#### TABULAR SUMMARY

A tabular summary of the work of the Provincial Eugenics Board to December 31, 1967, is appended.

### CASES PRESENTED AND PASSED (TO DECEMBER 31, 1967)

	YE	ARLY TO	TALS	CUMUI	LATIVE T	TOTALS
Years	Male	Female	Totals	Male	Female	Totals
1929-1933	87	201	288	87	201	288
1934-1938	557	438	995	644	639	1283
1939-1943	339	299	638	983	938	1921
1944-1948	237	311	548	1220	1249	2469
1949-1953	187	<b>2</b> 39	426	1407	1488	2895
1954-1958	302	275	577	1709	1763	3472
1959	32	62	94	1741	1825	3566
1960	37	65	102	1778	1890	3668
1961	44	75	119	1822	1965	3787
1962	48	71	119	1870	2036	3906
1963	45	80	125	1915	2116	4031
1964	43	63	106	1958	2179	4137
1965	28	53	81	1986	2232	4218
1966	51	79	130	2037	2311	4348
1967	27	55	82	2064	2366	4430

#### OPERATIONS ONLY (TO DECEMBER 31, 1967)

	YE	ARLY TOT	ALS	CUMUI	LATIVE	TOTALS
Years	Male	Female	Totals	Male	Female	Totals
1929-1933	48	158	206	48	158	206
1934-1938	198	240	438	246	398	644
1939-1943	122	151	273	368	549	917
1944-1948	87	124	211	455	673	1128
1949-1953	84	162	246	539	835	1374
1954-1958	207	160	367	746	995	1741
1959	40	50	90	786	1045	1831
1960	21	48	69	807	1093	1900
1961	53	52	105	860	1145	2005
1962	33	65	98	893	1210	2103
1963	31	61	92	924	1271	2195
1964	37	44	81	961	1315	2276
1965	45	47	92	1006	1362	2368
1966	42	65	107	1048	1427	2475
1967	34	63	97	1082	1490	2572

### NATIONAL HEALTH GRANTS

Since 1948 the Federal Government has made a series of Health Grants available to the provinces. These relate to various specific problems such as General Public Health, Venereal Disease Control, Hospital Construction, etc. Within these grants the province may prepare a project in which it is proposed that a new health service may be financed. If the project comes within the terms of the federal regulations, it is approved by the federal authorities and the money becomes available to reimburse the province for its expenditure.

In most of the grants the project covers the entire cost of the service as outlined in the project but it is required by the federal authorities, that their grant be matched in certain Grants, Cancer Control, Hospital Construction, etc.

The following table shows the amount of these grants for 1967/68, the amount that was committed under the various projects, the amount actually expended and the percentage of the various grants that was expended.

#### NATIONAL HEALTH GRANTS ALBERTA-1967-1968

Grant	Amount of Grant	Amount Committed	Amount Expended	Percentage of Grant Expended
Professional Training Mental Health	\$ 188,774.00 648,112.00	\$ 185,208.86 648.112.00	\$ 178,597.60 648.112.00	94.6%
Tuberculosis Control	117,579.00	117,579.00	117,579.00	100%
General Public Health	1,246,089.00	1,246,089.00	1,246,089.00	100%
Cancer Control	143,761.00	143,761.00	143,761.00	100%
Crippled Children	174,455.00	97,105.00	75,832.09	43.4%
Child and Maternal Health	154,736.00	129,725.80	120,890.46	78.1%
	\$2,673,506.00	\$2,567,580.66	\$2,530,861.15	94.6%

NOTE: The Hospital Construction Grant has not been included under the above, as this information may be obtained from the separate publication covering the Annual Report of the Hospital Services Section.

### CANADIAN RED CROSS BLOOD TRANSFUSION SERVICE IN ALBERTA

D. I. Buchanan, M.D., D.P.H., (Edmonton), E. W. Nation, M.B., M.R.C.P., (Calgary)

It is a pleasure to submit this annual report on the work of the Blood Transfusion Service in Alberta during 1967. As noted in Table 1, a grand total of 79,311 donations was received throughout the province. This constitutes a marked increase over 1966 when 74,614 bottles or plastic packs were collected.

#### TABLE 1 BOTTLES COLLECTED, 1967

Jan. 1 to Dec. 31	and City	Mobile	
(inclusive)	Mobiles	Clinics	
Northern Alberta	25,235	16,641	= 41,876
Southern Alberta	23,002	14,433	= 37,435
	48,237	31,074	79,311

By the end of 1967, both the Edmonton and Calgary centres of the Blood Transfusion Service had switched over completely to plastic packs and equipment.

#### **Blood Transfusions**

As in 1966, over 90 hospitals still depend upon the Edmonton Depot for crossmatching services, and, similarly, some 49 hospitals in the southern part of the province rely on the Calgary Depot for crossmatched blood. It is probable that several of the major hospitals in Calgary will commence their own crossmatching service in 1968, and this will undoubtedly be of great advantage to their own patients. It has been proved in Edmonton that, where crossmatching is performed within a hospital itself, only 6% to 8% of the blood is ever returned unused to the Red Cross depot. In other words, if the blood is not needed for one patient, it can be re-crossmatched for another in the same hospital. The number of whole blood transfusions, etc., is given in Table 2.

### TABLE 2 TRANSFUSIONS OF WHOLE BLOOD, 1967

Jan. 1 to Dec. 31 (inclusive)	No. Units Issued	Blood Transfusions Administered	Patients Transfused
Northern Alberta	35,685 36,658	27,342 20,193	9,498 10,005
	72,343	47,535	19,503

#### Plasma

A total of 402 five-litre flasks and 39 two-litre plastic packs of liquid plasma was shipped to the Connaught Laboratories from Edmonton during 1967, and 1,431 two-litre plastic packs were sent from Calgary.

#### Fresh Frozen Plasma and Cryoprecipitate

With the recent introduction of Factor VIII cryoprecipitate for the treatment of patients suffering from hemophilia A, there has been a reduced demand for fresh frozen plasma, although there is still some need for fresh plasma or of relatively fresh plasma for the treatment of patients suffering from Factor IX deficiency or Christmas disease, and a limited number of other conditions.

A lot of time is consumed in making the antihemophilic cryoprecipitate and fresh frozen plasma, and it is well to remember that this has created an increasing demand for donors whose freshly taken blood has to be processed within a short time.

In Northern Alberta we issued 1,296 units of cryoprecipitate to hospitals, plus 128 units of fresh frozen plasma, and a total of 766 units of cryoprecipitate, plus 25 units of fresh frozen plasma was issued to hospitals by the Calgary Depot.

#### Rh Prevention Program

In last year's report we made particular mention of the great interest shown by the Honourable Dr. J. D. Ross and his staff in regard to the new Rh prevention program.

We are continuing the preparation of anti-Rh gamma globulin in conjunction with Dr. Albert Fisher of the Connaught Laboratories and the Western Canadian group who have participated in this study.

In 1967 there were approximately 180 new cases of anti-D or anti-Rh immunization in Alberta, and we are trying to establish the optimal dose and the best time to give the new anti-Rh gamma globulin preparation. At least another year will elapse before we can determine the probable value of this therapy, although at the present time almost all the larger cities in the Western Canadian provinces are taking part in this major research activity.

#### Rh and Antenatal Studies

A total of 37,710 antenatal, postnatal and related specimens was tested in 1967, as shown in Table 3.

TABLE 3
Rh, AND OTHER INVESTIGATIONS, 1967

Jan. 1 to Dec. 31 (inclusive) Northern Alberta Southern Alberta Antenatal Specimens and Others Investigated 22,994 14,716 37,710

In conclusion, we would like to express our sincere appreciation for the help of the many volunteers and for the advice of the committee members who are continually striving to improve this service in Alberta. Each member of the Blood Transfusion Service staff contributed significantly to the success of this large undertaking, and they merit great praise and appreciation.





### PART II

### ANNUAL REPORT

OF THE

## Division of Vital Statistics

OF THE

DEPARTMENT OF HEALTH
PROVINCE OF ALBERTA

For The Year 1967

(Sixty-Third Annual Report)



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#### **DEFINITIONS**

Infant deaths —deaths under 1 year of age.

Neo-natal —deaths under 28 days (4 weeks) of age.

Maternal —deaths due to delivery and complications of pregnancy, childbirth and the puerperium (Categories

640 - 689 International List).

Stillbirths —foetal deaths of 28 or more weeks' gestation.

Perinatal deaths—foetal deaths of 28 or more weeks' gestation plus infant deaths under 7 days (1 week) of age.

Natural increase—excess of births over total deaths. (Death figures do not include stillbirths.)

#### RATES

(Unless otherwise indicated computed as follows)

Per 1,000 population; Live births, deaths, natural increase, marriages.

Per 100,000 population; Causes of death, divorces.

Per 1,000 live births; Infant and neo-natal deaths, stillbirths.

Per 10,000 live births; Maternal deaths.

Per 1,000 total births (live- and still-born): Perinatal deaths.

## DIVISION OF VITAL STATISTICS

J. COLVILLE, Director

#### **INTRODUCTION**

In comparing the Vital Statistics rates of the Province for the year 1967, with those of the previous year, it is noted there are increases in the marriage, stillbirth and divorce rates and decreases in the birth, death, infant death, neo natal death, peri natal death and maternal death rates. The natural increase of births over deaths was 14.2 as compared to 14.3 for 1966.

#### **POPULATION**

The population of the Province for the year 1967 has been estimated by the Dominion Bureau of Statistics as 1,490,000. All rates in this report are based on that figure. Between pages 12 and 13 there is a map of the Province by census divisions and commencing on page 13 a table of population by census divisions. A table of the estimated population by sex and age group for 1967 is shown on page 16.

#### BIRTHS

Although the birth rate of 20.6 per 1,000 population for 1967 is a decrease of .3 under the rate for 1966, the number of births to residents of the Province in 1967, exceeded the total for the previous year by 99. This phenomenon is due to increased population. Of the total births, 15,682 were males and 15,009 females, constituting a sex ratio of 1,044 male to 1,000 female births. The births of 2,286 Indians were registered which is an increase of 96 over 1966. Indian births make up approximately 7% of the total births. Seventy percent of the births occurred in urban places of 1,000 population and over, 99.2% occurred in hospitals, 30,450 were delivered by doctors, 84 by nurses, 66 by midwives and 91 were unattended. There were 299 sets of twins born and 30,721 confinements. Of the total births, 3,518 or 11.4% were illegitimate, an increase of 320 over 1966. The figure of illegitimate births includes 941 births to Indians and the illegitimate birth rate for Indians was 41.1. The ratio of births over deaths was 3.22.

The number of births to residents of the cities in the Province was as follows: Calgary, 7,418; Camrose, 155; Drumheller, 73; Edmonton, 8,726; Grande Prairie, 281; Lethbridge, 627; Medicine Hat, 396; Red Deer, 497; and Wetaskiwin, 117.

The following table shows the most recent birth rates for Canada and certain other Countries:

Canada	18.2
Newfoundland	25.7
Prince Edward Island	18.8
Nova Scotia	18.9
New Brunswick	19.9
Quebec	17.3
Ontario	17.8
Manitoba	17.8
Saskatchewan	18.8
Alberta	20.6
British Columbia	16.9
Yukon	25.7
Northwest Territories	41.7
England and Wales	17.2
0	18.6
Northern Ireland	22.4
Northern Ireland	44.4

Ireland (Republic)	21.2
United States	17.9
Australia	19.4
New Zealand	22.4
Denmark	18.4
Finland	16.5
France	16.8
Italy	18.1
Austria	17.4
Norway	18.0
Netherlands	18.9
Portugal	21.1
Spain	21.1
Sweden	15.4
Switzerland	17.7
Western Germany	17.3
Western Germany	2

#### **MARRIAGES**

The number of marriages registered in 1967, was 12,903, as compared to 11,879 for 1966, with a corresponding increase in the rate from 8.1 to 8.7 per 1,000 population. This is the fifth consecutive year in which the number and rate of marriages increased over that of the previous year. As in the previous year, the highest number of marriages registered in a single month occurred in July, when 1,589 marriages were registered and the lowest number registered occurred in January when 464 marriages were registered. On the lower end of the scale, 4,369 brides and 1,055 grooms were under 20 years of age and on the higher end, 22 brides and 60 grooms were 75 years of age and over. Of the grooms, 11,474 were bachelors, 49 widowers and 1,010 divorced and of the brides, 11,232 were spinsters, 649 widows and 1,022 divorcees.

The number of marriages registered in the cities of the Province was as follows: Calgary, 3,228; Camrose, 111; Drumheller, 63; Edmonton, 4,141; Grande Prairie, 134; Lethbridge, 422; Medicine Hat, 305; Red Deer, 272; and Wetaskiwin, 86.

The following table shows the most recent marriage rates for Canada and certain other Countries:

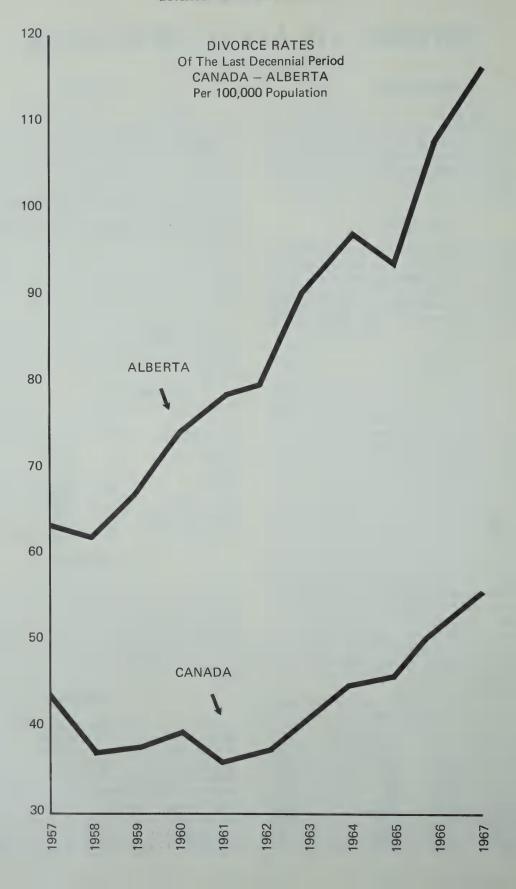
Canada	8 1	Ireland (Republic)	6.1
Newfoundland		United States	9.7
Prince Edward Island	7.4	Australia	8.5
Nova Scotia		New Zealand	8.6
New Brunswick		Denmark	8.6
Quebec	7.9	Finland	8.8
Ontario	8.2	France	6.9
Manitoba		Italy	7.3
Saskatchewan		Austria	7.7
		Norway	
British Columbia		Netherlands	
Yukon	8.9	Portugal	8.4
Northwest Territories	6.2	Spain	
England and Wales	8.0	Sweden	7.4
Scotland		Switzerland	7.4
Northern Ireland	7.3	Western Germany	8.0

#### DIVORCES

There were 1,736 decrees of divorce and 21 decrees of nullility granted in 1967, as compared to 1,567 decrees of divorce and 19 decrees of nullity granted during 1966, with a corresponding increase in the divorce rate per 100,000 population from 107.1 to 116.5. Of the total divorces, 623 were granted to husbands and 1,113 to wives and of the nullities, 7 to husbands and 21 to wives.

#### **DEATHS**

There was a favourable decrease in the number of deaths to residents in 1967, as compared to the previous year. In 1967, there were 9,523 deaths registered as compared to 9,677 and there was a corresponding reduction in the rate from 6.6 to 6.4. The highest loss of life occurs at the extremities of the life span. During 1967, 615 of the decedents were under one year of age and 5,721 were sixty-five years and over. Of the decedents, 2,101 were single, 4,673 married and 2,707 were divorced or widowed, 7,915 were attended by a doctor, 9 by a nurse



and 1,599 investigated by a coroner. Autopsies were performed on the bodies of 1,702 of the 4,893 decedents who died in hospitals, and on 585 of the 1,984 decedents who died outside a hospital. The highest number of deaths for a single month occurred in January when 847 deaths were registered and the lowest number occurred in May when 606 deaths were registered. Of the total number of deaths, 5,895 were males and 3,628 females, giving a sex ratio of 1,624 male to 1,000 female deaths.

The five leading causes of death in chronological order for 1967 were; heart disease, cancer, violent and accidental deaths, vascular lesions affecting the central nervous system and pneumonia (all forms). Heart diseases accounted for 2,977 deaths; cancer, 1,739; violence and accidents, 1,029; vascular lesions of the central nervous system, 1,019, and pneumonia, 299. Deaths in the violent and accidental group, included motor vehicle accidents, 433; other transport accidents, 30; accidental poisoning, 42; accidental falls, 132; accidents caused by machinery, 21; accidents caused by fire and explosion, 54; other accidental burns, 3; accidents caused by firearm, 14; accidental drowning, 57; other accidental causes, 69; suicides, 137, and homicides, 37.

The number of deaths registered in the cities of the Province was as follows: Calgary, 2,117; Camrose, 185; Drumheller, 64; Edmonton, 2,122; Grande Prairie, 91; Lethbridge, 324; Medicine Hat, 254; Red Deer, 157; and Wetaskiwin, 46.

The following table shows the most recent death rates for Canada and certain other Countries:

TOT CHILDREN GITG COTTUIN	Other CO	arrer too,	
Canada	7.4		
Newfoundland		United States 9.4	
Prince Edward Island	9.5	Australia 8.7	
Nova Scotia	8.8	New Zealand 8.4	
New Brunswick		Denmark 10.3	
Quebec	6.6	Finland 9.4	
Ontario	7.7	France 10.8	
Manitoba		Italy 9.7	
Saskatchewan	7.8	Austria	
Alberta	6.4	Norway 9.2	
British Columbia	8.3	Netherlands 7.9	
Yukon	4.9	Portugal 10.0	
Northwest Territories	7.5	Spain 8.7	
England and Wales	11.2	Sweden 10.1	
Scotland		Switzerland 9.0	
Northern Ireland	9.8	Western Germany 11.2	

#### MATERNAL DEATHS

A total of 5 maternal deaths were registered in 1967, one less than in 1966, and there was a corresponding decline in the rate from 2.0 to 1.6 per 10,000 live births.

#### MATERNAL DEATH RATES PER 10,000 LIVE BIRTHS

Carada	2.4	Manitoba	1.7
Newfoundland		Saskatchewan	2.2
Prince Edward Island		Alberta	1.6
Nova Scotia		British Columbia	1.5
New Brunswick	2.4	Yukon	
Quebec	3.3	Northwest Territories	
Ontario	2.3		

#### **INFANT DEATHS**

There was a gratifying decrease in the number of children who died under one year of age; 615 were registered in 1967, as compared to 640 in 1966, and there was a corresponding decline in the rate from 20.9 to 20.0 per 1,000 live births. Of the total infant deaths, 329 were males and 286 females.

### INFANT DEATH RATES PER 1,000 LIVE BIRTHS

22.0	Ireland (Republic)	24.5
28.6		22.1
23.4	Australia	18.3
	New Zealand	17.7
25.1	Denmark	17.0
23.1		14.4
19.7	France	21.8
		34.3
	Austria	28.1
	Norway	16.8
21.4		14.7
	Portugal	64.7
		26.7
		12.6
	Switzerland	17.1
23.5	Western Germany	23.6
	28.6	28.6     United States       23.4     Australia       22.8     New Zealand       25.1     Denmark       23.1     Finland       19.7     France       21.6     Italy       25.8     Austria       20.0     Norway       21.4     Netherlands       23.4     Portugal       62.0     Spain       18.3     Sweden       21.0     Switzerland

#### **STILLBIRTHS**

There was a decrease of 7 stillbirths (20+ weeks gestation) under the previous year and an increase of 6 stillbirths (28+ weeks gestation); 350 stillbirths (20+ weeks gestation) and 286 (28+ weeks gestation) were registered in 1967, as compared to 357 (20+ weeks) and 280 (28+ weeks gestation) for 1966. The stillbirth rate (20+ weeks gestation) was 11.4 and for (28+ weeks gestation) 9.3 per 1,000 live births. A table of the stillbirths by sex and period of gestation is printed on page 137. (Table 43)

#### **ADMINISTRATION**

The Vital Statistics Act, the Marriage Act and the Regulations providing for the licensing of embalmers are administered by the Director, Division of Vital Statistics.

Under the provisions of the Vital Statistics Act, the administrative procedure necessary for matters of civil registration is provided. There are approximately 170 District Registrars located in the larger centres of the Province, whose duties are to acquire the registration of each vital event (birth, stillbirth, marriage and death) which occurs within their district for recording and transmission to the Division on a weekly basis. In addition, decrees of dissolution and annulments of marriage, adoptions and legal changes of name are received for recording. All registrations are edited, microfilmed, etc., arranged and bound in a systematic manner and continuous indexes prepared. Certified copies, photocopies of original registrations, certified extracts, certificates and verifications are issued to applicants or agencies upon receipt of the prescribed fee. Verifications and photocopies of registrations are also supplied free of charge to other government departments and certain authorized agencies

Listed below is a summary of work processed under the provisions of The Vital Statistics Act, during 1967:

Births registered Stillbirths registered	30,719
Marriages registered	12.916
Deaths registered	9.605
Certificates of Birth issued	50,640
Certificates of marriage issued	19,542
Certificates of death issued	6,488
Searches—Public	780
Gov't Depts., Social Agents, etc.	5,046
Legal Changes of Name recorded	602
Legitimations	309
Delayed registrations of birth	854
Adoptions registered	1,963

Under the Marriage Act, the Division provides administrative procedure for the appointment of marriage licence issuers, marriage commissioners and the registration

of clergymen authorized to perform marriages in the Province. Approximately 145 marriage licence issuers are located in the larger centres of the Province, whose duties are to issue marriage licences in accordance with the provisions of The Marriage Act.

The following summary shows work processed under the provisions of The Marriage Act during the year 1967:

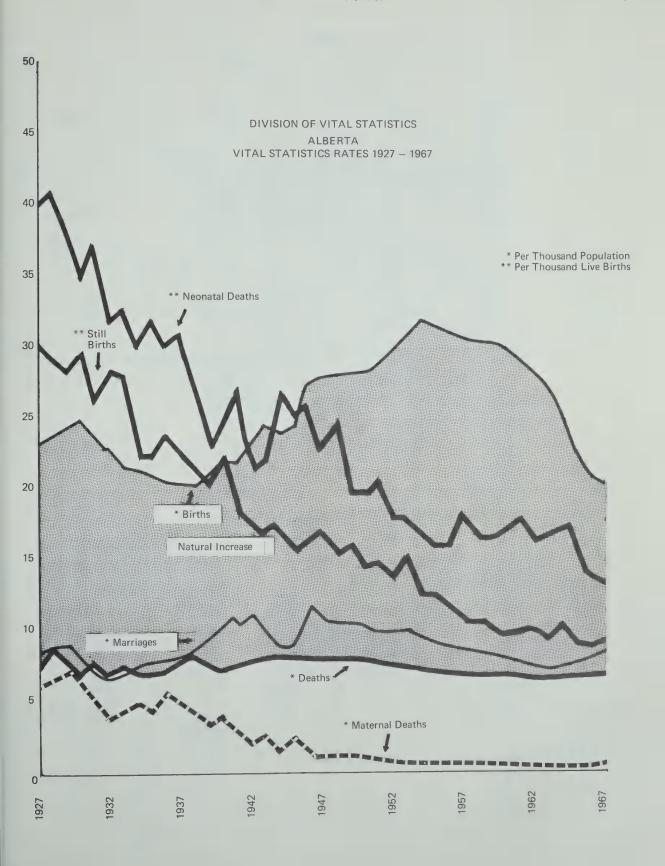
Marriage licences issued	13,159
Clergymen registered	2,838
Marriage Commissioners registered	37

Under the provisions of the Regulations providing for the licensing of embalmers, the Division licenses embalmers and registers apprentice embalmers. During the year 1967, 230 embalmers were licensed and 21 apprentice embalmers registered.

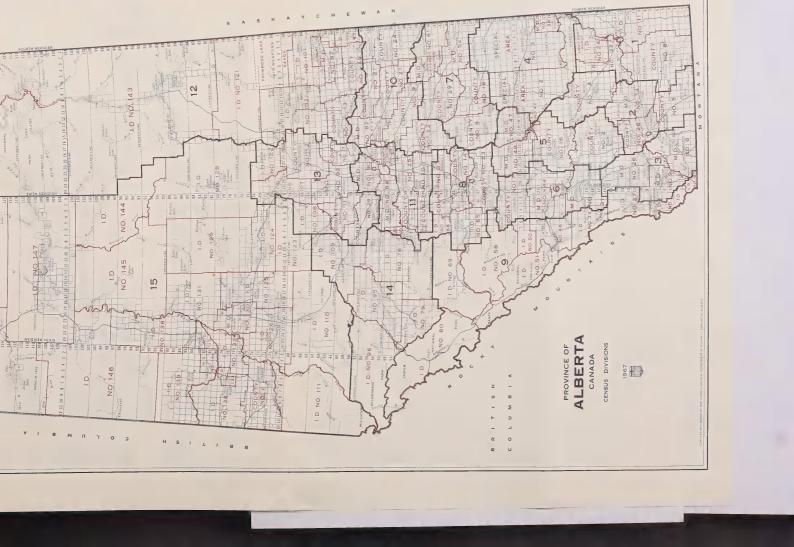
#### REVENUE AND EXPENDITURE For the fiscal year ending March 31st, 1968

#### MARRIAGE ACT

	Marriage Licences	\$ 62,519.00
VITAL STAT	ISTICS ACT	
	Birth Certificates Marriage Certificates Death Certificates Certified Copies Micro Film Transcriptions Certificate of Authority to Register Change of Christian Name Legitimation Embalmers Licences Apprentice Embalmers Licences Search Fees Marriage Fees Sundries	99,660.00 38,830.00 13,412.00 1,808.00 4,527.50 1,632.00 515.00 612.00 1,080.00 95.00 782.00 3,269.00 3,350.53
		\$ 169,573.03
TOTAL REV	ENUE	\$ 232,092.03
	EXPENDITURE	
Salaries Office Expen	Printing and Stationery Furnishings, Equipment and Tools Freight, Express & Cartage Fees and Commissions Postage Repairs, Office Furniture and Equipment Repairs, Office Equipment Telephones and Telegraphs Rentals Travelling Subsistence	\$ 111,853.50 11,046.30 635.82 71.65 7,067.82 6,059.94 46.55 316.23 54.16 300.00 155.83









# POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1961 AND 1966

Subdivision	1966	1961	Subdivision	1966	1961	
ALBERTA	1,463,203	1,331,944	Division No. 4	14,224	15,020	
Division No. 1	38,858	39,140	34. Acadia	896	965	
11. I.D.	3,792(1)	4,228	Special Area No. 2 (Barry Creek - Sullivan Lake Area)		2 005	
22. I.D.	472	553	Special Area No.3 (Sound-	3,288	3,805	
Forty Mile, County No. 8	4,104(2)	4,716	ing Creek-Neutral Hill Area	4,686(1)	4,994	
Army Experimental				1,000(1)	7,774	
Range (I.D. 24)	645	786	Towns:			
			Hanna	2,633	2,645	
Cities:			Oyen	846	780	
Medicine Hat	25,574	24,484				
Towns:			Villages:			
Bow Island	1 760	1 122	Cereal	191 (1)	195	
Irvine	1,160	1,122 240	Chinook	95	114	
Redcliff	2,141	2,221	Consort	594	557	
	2,111	2,221	Empress Veteran	360	405	
/illages:			Youngstown	278 357	239	
Burdett	207 (2)	229	Todaigstown	351	321	
Foremost	554 (2)	561	Division No. 5	35,987	38 115	
	1 2 2 (2)	501		33,701	38,115	
Division No. 2	82,719	83,306	42. I.D.	3,403(1,2)	4,370	
		,	47. Starland	2,535(2)	2,907	
14. Taber	6,871	7,349	48. Kneehill	6,290(1,3)	7,008	
Newell, County No. 4	5,898	6,038	Vulcan, County No. 2	4,330(1,4)	5,018	
Warner, County No. 5	4,386(1)	4,991	Wheatland, County No. 16	5,062(4)	5,570	
Lethbridge, County No. 26	9,506(2)	11,184	Indian Reserves	1,714	1,612	
Cities:			Cities:			
Lethbridge	37,186(2)	35,454	Drumheller	3,574(1)	2,931	
Cowns: Bassano	0.25		Towns:			
Brooks	827	815	Gleichen	411	426	
Coaldale	3,354	2,827	Strathmore	994 (4)	924	
Milk River	2,541(2)	2,592	Three Hills	1,452(1)	1,491	
Picture Butte	861(1)	801	Trochu	780 (1)	671	
Raymond	1,013(2)	978	Vulcan	1,505	1,310	
Taber	4,584	2,362 3,951	Villages:			
Vauxhall	934	942	Acme	335	3 28	
· · · · · · · · · · · · · · · · · · ·	73-1	746	Arrowwood	174	195	
'illages:			Carbon	374 (1)	371	
Barons	270	345	Carmangay	246 (4)	297	
Coutts	427	469	Champion	357	419	
Duchess	233	218	Cluny	171	174	
Grassy Lake	226	274	Craigmyle	98	107	
Nobleford	345 (2)	309	Delia.	274	287	
Rosemary	221	210	Hussar	235	213	
Stirling	390	468	Linden	210 (3)	-	
Tilley	250	257	Lomond	215	244	
Warner	446	472	Milo	154 (1)	167	
			Morrin	272	316	
Division No. 3	29,592	30,967	Munson	39	82	
/ 6 1.	4 252 (1)	4 007	Rockyford	281	288	
6. Cardston	4,259(1)	4,905	Rumsey	108	123	
9. Pincher Creek	2,739(2)	3,240	Standard	264	266	
26. Willow Creek Indian Reserves	4,317(3)	4,863	Torrington	130 (3)	-	
Indian reserves	4,102	3,889	Division No. 6	369,140	317,989	
Cowns:				3712.20	311,709	
Cardston	2,721	2,801	31. Foothills	6,455(1,2)	7,896	
Claresholm	2,569(3)	2,143	44. Rocky View	8,522(2,3)	10,748	
Fort MacLeod	2,709	2,490	Mountain View, County	, , , , , ,		
Granum	295	290	No. 17	■,656(4)	9,348	
Magrath	1,220(1)	1,338	Indian Reserves	771	511	
Nanton	940 (3)	1,054	Cities:			
Pincher Creek	2,882(2)	2,961	Calgary	330,575(2)	249,641	
Stavely	292	349				
			Towns:	0.55		
'illages:	1,11		Black Diamond	858	1,043	
Cowley	163	127	Bowness	(2)	9,184	
Glenwood Hill Spring	194(1)	274	Didsbury	1,586	1,254	
	190	243	Forest Lawn	(2)	12,263	

### DIVISION OF VITAL STATISTICS

# POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1961 AND 1966. (Continued)

Subdivision	1966	1961	Subdivision	1966	1961
Towns: (Cont'd)					
High River	2,239	2,276	Villages:		
Montgomery	(2)	5,077	Alix	636	631
	922	1,043	Bentley	637 (2)	588
Okotoks			· · · · · · · · · · · · · · · · · · ·	729 (2)	477
Olds	2,999(4)	2,433	Blackfalds		
Sundre	831 (4)	853	Bowden	610 (4)	437
			Caroline	294	321
			Clive	238	251
'illages:	## C (C)	534		391	450
Airdrie	778 (3)	524	Delburne		
Beiseker	404(3)	360	Eckville	716 (2)	580
Blackie	156	184	Elnora	191	214
		665	Gull Lake (6)	48 (2)	40
Carstairs	761			433	577
Cayley	133	146	Mirror		311
Cochrane	819(3)	857	Norglenwold (6)	23 (5)	-
Cremona	191	221	Penhold	370	319
		593			
Crossfield	582		m	20 105	20 274
Irricana	104	167	Division No. 9	18,195	20,274
Longview	173(1)	_			
		702	8. I.D.	(1)	80
Turner Valley	625	102			
			10. I.D.	1,664(1,2)	1,844
Division No. 7	40,833	40,837	27. I.D.	132	133
			33. I.D.	32	34
	2 044 (1)	2 220	46. I.D.	1,651(4)	3,076
52. Provost	2,944(1)	3,328			
61. Wainwright	4,454(2,3)	4,847	50. I.D.	45	41
62. Flagstaff	5,977(4,5)	6,355	58. I.D.	522 (5)	534
		5,968	69. I.D.	179 (6)	505
Stettler, County No. 6	5,640(6)				
Paintearth, County No. 18(7)	3,227	3,278	78. I.D. (pt.) (7)	73 (6)	-
			Banff National Park		
Cowns:			(I.D. 51)	3,381	4,101
		2 005			3,429
Castor	1,090	1,025	Banff (not inc.) (8)	2,896	3,467
Coronation	811	864	Jasper National Park		
Daysland	632	539	(I.D. 80)	2,791	2,902
-				2,505	2,360
Hardisty	597 (5)	582	Jasper (not inc.) (9)	2,505	2,300
Killam	866 (4)	552	Waterton Lakes Nat'l		
Provost	1,328	1,022	Park (I.D. 8)	266	344
	760 (4)	655	Indian Reserves	1,376	1,441
Sedgewick			Indian Neserves	1,510	2, 111
Stettler	3,988(6)	3 638			
Wainwright	3,867(2)	3,351	Towns:		
8			Blairmore	1,779	1,980
Villages:			Coleman	1,507(2)	1,713
Alliance	291	291			
Amisk	134(1)	127	Villages:		
	378	461	Bellevue	1,174	1,323
Big Valley					1,525
Botha	134 (6)	112	Canmore	1,445 (4)	-
Chauvin	362(3)	395	Frank	178	223
Czar	222	196	Ghost Lake (10)	_	-
	1	289	23.0 (20)		
Donalda	271			E0 211	70 35
Edgerton	345	295	Division No. 10	70,211	70,177
Forestburg	669	677			
0	84	98	82. Lamont	5,872(1)	6,754
Gadsby					
Galahad	174 (4)	231	Beaver, County No. 9	6,009(2)	6,476
Halkirk	177	172	Two Hills, County		
Heisler	214 (4)	214	No. 21 (3)	5,528 (4)	6,205
Hughenden	274	294	Camrose, County No. 22(5)	8,285(6,7)	9,041
Irma	430	425	Vermilion River, County		
Lougheed	252 (4)	217	No. 24 (8)	8,380 (9)	8,862
		28			
Rochon Sands (8)	2		Minburn, County No. 27(10)	5,591(11)	6,181
Strome	239 (5)	311	Elk Island National		
			Park (I.D. 97)	63	69
Division No. 8	83,912	76,533	, , , , , , ,		- /
D11.31011 110. 0	20,710	,	C:t:		
			Cities:		
65. I.D.	5,612	5,532	Camrose	8,362(7)	6,939
68. I.D.	108 (1)	124	Lloydminster (pt) (12)	3,767 (9)	2,944
Ponoka, County No. 3	8,392(1)	8,688	(50) (22)	-,(//	
Lacombe, County No.14	8,367(2)	8,725	Towns:		
Red Deer, County No. 23(3)	12,943(4,5)	13,477	Bashaw	697 (7)	614
Indian Reserves	1,736	1,246			
mulan Reserves	1,750	1,240	Mundare	.564	603
			Tofield	952 (2)	905
Cities:			Two Hills	1,056(4)	826
Red Deer	26 171 (4)	19 612			
Red Deer	26,171(4)	19,612	Vegreville	3,598(11)	2,908
			Vermilion	2,685	2,449
Towns:			Viking	1,146(2)	1,043
	2 531 (4)	2 270	,	1,110(2)	1,013
Innisfail	2,531(4)	2,270			
Lacombe	3,035	3,029	Villages:		
	4,421(1)	3,938	Andrew	5 2 5	601
Ponoka					
Ponoka		1 244	Down!f		
Rimbey	1,502(1)	1,266	Bawlf	220	203
		1,266 2,360	Bawlf Bittern Lake	220 80(7)	76

# POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1961 AND 1966. (Continued)

Subdivision	1966	1961	Subdivision	1966	1961
Villages: (Cont'd)			Division No. 12	50,635	47,310
Chipman	183	174			.,,510
Derwent	261	281	85. I.D.	347	338
Dewberry	198 (9)	179	87. Bonnyville	10,979(1)	10,209
Edberg	167 (7)	179	101. I.D.	1,825	1,951
Ferintosh	156 (7)	174	102. I.D.	4,926(2)	4,840
Hairy Hill	136	173	121. I.D.	309	323
Hay Lakes	196 (7)	233	143. I.D.	1,792(3)	1,650
Holden	503	556	Smoky Lake, County No. 13		
Innisfree	314	291	St. Paul, County No. 19 (5)	4,028 (4) 6,710 (6)	4,913
Kitscoty	364	326	Wood Buffalo Nat'l Pk.(pt)		7,421
Lamont	835	705	Indian Reserves	231	86
Lavoy	118	131	Indian iteserves	3,704	3,229
Mannville	683 (11)	632	Towns:		
Marwayne	351	379			
Minburn	143		Bonnyville	2,237(1)	1,736
Myrnam		164	Cold Lake	1,289(1)	1,307
	460 (4)	441	Elk Point	726 (6)	692
New Norway	220	263	Fort McMurray (7)	2,614(3)	1,186
Paradise Valley	174 (9)	~	Grand Centre	1,731(1)	1,493
Rosalind	222 (6)	-	Lac La Biche	1,490	1,314
Ryley	438	469	St. Paul	3,543(6)	2,823
Willingdon	419	429	Smoky Lake	871 (4)	626
Division No. 11	476,053	410,679	Villages:		
			Bonnyville Beach (8)	1(1)	
77. I.D.	2,022(1)	2,384	Glendon	350(1)	315
84. Stony Plain	8,846(2,3)	9,238	Plamondon	195 (2)	
90. Sturgeon	15,926(2,4)	17,837	Vilna	344	400
Wetaskiwin, County No. 10	8,435(5)	8,701	Warspite	119	
Strathcona, County No. 20(6)	16, 185(2,6)	12,075	Waskatenau	274	153
Leduc, County No. 25(7)	10,294(8,9)	10,647	Waskatellau	614	305
Indian Reserves	2,555	2,072	Division No. 13	44,142	45,431
1141			0.0 1//		
Cities:	37/ 035/31	202 027	92. Westlock	7,378(1)	7,864
Edmonton	376,925(2)	281,027	107. I.D.	1,565(2)	1,571
Wetaskiwin	6,008(5)	5,300	108. I.D.	629	636
			122. I.D.	424 (2)	613
'owns:			Thorhild, County No.7	4,324(3,4)	5,096
Beverly	(2)	9,041	Barrhead, County No. 11	5,467	5,759
Calma r	600 (9)	700	Athabasca, County No. 12	6, 147 (3,5)	6,792
Devon	1,283	1,418	Lac Ste. Anne, County		
Drayton Valley	3,352(1)	3,854	No. 28 (6)	6,687(7,8)	7,151
Fort Saskatchewan	4,152(6)	2,972	Indian Reserves	353	432
Jasper Place	(2)	30,530			
Leduc	2,856 (9)	2,356	Towns:		
Lodgepole	207	508	Athabasca	1 661	1 407
Morinville	995	935	Barrhead	1,551	1,487
St. Albert	9,736(4)	4,059		2,592	2,286
			Mayerthorpe	916 (8)	663
Stony Plain	1,397	1,311	Redwater	1,041	1,135
illages:			Westlock	2,685(1)	1,838
Betula Beach (10)	_	7	Villages:		
Bon Accord	147 (4)	_	Alberta Beach (9)	143 (8)	135
Breton	447 (9)	428	Boyle	, ,	
		13	· · · · · · · · · · · · · · · · · · ·	437 (5)	346
Crystal Springs (10)	13 (5)		Castle Island (9)	- 25/	-
Edmonton Beach (10)	41	20	Clyde	256	259
Entwistle	345	411	Fort Assiniboine	187	216
Gibbons	230	192	Island Lake (9)	9	12
Golden Days (10)	6 (8)	-	Nakamun Park (9)	2 (7)	-
Itaska Beach (10)	1	2	Onoway	375 (8)	302
Kapasiwin (10)	-	2	Radway	158	183
Lakeview (10)	2	12	Ross Haven (9)	17 (7)	-
Legal	572 (4)	5 2 4	Sandy Beach (9)	20	4
Ma-Me-O Beach (10)	103	142	Sangudo	314 (8)	3 25
Millet	418	403	Sunset Point (9)	18	14
New Sarepta	173	184	Thorhild	430 (4)	312
Point Alison (10)	7	6	Val Quentin (9)	8 (7)	-
Seba Beach (10)	155 (3)	113	West Cove (9)	6 (7)	_
	31	14	Yellowstone (9)	3 (7)	_
Silver Beach (10)					
Silver Beach (10)					
Silver Beach (10) Spruce Grove Thorsby	598 (3) 583 (9)	465 491			

#### DIVISION OF VITAL STATISTICS

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1961 AND 1966. (Concluded)

Subdivision	1966	1961	Subdivision	1966	1961	
Division No. 14 ·	20,358	19,282	Cities:			
DIVIDION NO. 11			Grande Prairie	11,417(2)	8,352	
78. I.D.(pt) (1)	3,550(2)	3,484				
79. I.D.	490	667	Towns:			
95. I.D.	3,202(3)	3,638	Beaverlodge	1,083(2)	897	
96. I.D. (pt) (4)	410	430	Fairview	1,884(2)	1,506	
109. I.D.	1,457 (2,5)	2,351	Falher	843	741	
. ,			Grimshaw	1,376(2)	1,095	
Towns:			High Level	708 (9)	-	
Edson	3,788(3)	3,198	High Prairie	2,241	1,756	
Hinton	4,307	3,529	Manning	1,179	896	
Whitecourt	2, 279 (5)	1,054	McLennan	1,104(2)	1,078	
			Peace River	4,087(4)	2,543	
Villages:			Slave Lake	1,716(2)	468	
Evansburg	472	452	Spirit River	1,034(2)	890	
Wildwood	403	479	Swan Hills	1,414	643	
			Valleyview	1,827(2)	1,077	
Division No. 15	88,344	76,884				
			Villages:			
96. I.D. (pt) (1)	150(1)	_	Berwyn	430 (2)	347	
110. I.D.	472(1)	552	Donnelly	249	289	
111. I.D.	365	353	Girouxville	305	318	
123. I.D.	86	279	Hines Creek	418	398	
124. I.D.	2,732(2)	3,108	Hythe	445 (2)	449	
125. I.D.	3,101	3,212	Kinuso	376	323	
126. I.D.	2,726(2)	2,579	Nampa	288 (5)	271	
128. I.D.	1,100(3)	769	Rycroft	539 (2)	500	
129. I.D.	712	577	Sexsmith	491 (2)	531	
130. Smoky River	3,984(2)	4,094	Wanham	235	251	
131. I.D.	2,163 (4,5)	2,403	Wembley	299	303	
132. I.D.	2,595 (6)	2,646	" childrey	2//		
133. Spirit River	1,243(2)	1,318				
134. I.D.	2,792	2,505				
135. Peace	2,223(2,4)	2,053				
136. Fairview	1,745(2)	1,917				
137. I.D.	(3)	174				
138. I.D.	3, 251 (4,7)	3,194				
139, I.D.	3,379	2,772				
139. 1.D. 144. I.D.	84 (8)	212				
145. I.D.	8 (8)	144				
146. I.D.	852 (7,8)	662				
140. I.D. 147. I.D.	3,826 (8,9)	3,189				
148. I.D.	63 (8)	86				
149. I.D.	129 (8)	339				
Grande Prairie, County No. 1	8,697 (2,6)	8,803				
Indian Reserves	3,878	3,022				

### ESTIMATED POPULATION BY SEX AND AGE GROUP FOR ALBERTA, 1967

Ages	Total	Male	Female	Ages	Total	Male	Female
0 - 4	167.3	85.7	81.6	50-54	69.1	35.2	33.9
5 - 9	182.0	92. 9	89.1	55-59	57.0	29.4	27.6
10-14	163.3	83.9	79.4	60-64	46.9	24.8	22.1
15-19	135.0	68. 2	66.8	65-69	36.3	18.9	17.4
20-24	107.5	52.8	54.7	70-74	28, 1	14.4	13.7
25-29	94.3	46.6	47.7	75-79	21,5	11, 2	10.3
30-34	94.5	48.5	46.0	80-84	13. 2	6.8	6.4
35-39	96.1	49.9	46.2	85~89	5.6	2. 8	2.8
40-44	90.7	45.7	45.0	90+	1.7	0.8	0.9
45-49	79.9	40.3	39.6			0.0	
TOTAL					1,490.0	758.8	731.2

GENERAL SUMMARY OF VITAL STATISTICS FOR CENSUS DIVISIONS AND INCORPORATED TIBRAN DI ACES OF 1 AND POPULL ATTOM AND SUME ATTOM

OF 1,000 POPULATION AND OVER, ALBERTA, 1967  STILLBIRTHS  INFANT DEATHS	Marri- agesTotal Deaths MaleDeaths inTotal Nosp.Total MTotal MTotal MTotal MMMEMEMDeaths	5,895 3,628 6,839 329 286 217 161 19 15 93 110 5	171 145 262 6 2 5 2 1	133 121 217 6 1 5 1 1 2 2 4 16 30	348 207 407 20 12 12 8 1 1 7 3 -	64     15     13     21     3     2     2     1     -     -     1     1       422     201     123     239     10     6     6     5     1     1     3     -     -       2     1     1     1     1     1     1     -	145 96 175 8 5 5 1 1 1 2 3 -	11 7 15 1 1	76 34 80 2 4 2 3 1 -	51 27 54 1 4 1 3 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	195 96 201 6 5 4 3 2 2 2	39 24 45 - 1 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1,433 978 1,740 98 74 68 42 6 4 24 28 -	1,247 870 1,534 86 69 64 41 5 4 17 24
URBAN PLACES LIVE BIRTHS	In Hospital Illegitimate Fem. Male Fem. Male Fem.	5,009 15,549 14,913 1	308 316 308	8 6 8 196 199 196 17 17 17 87 94 87	775 755 768	39 44 39 16 20 16 298 329 298 3 3 3 3 1 4 13 14 54 51 54 351 295 344	272 294 266	24 30 24 14 21 14 18 17 18 7 7 7 30 29 30 179 173	154 116 151	21 24 21 133 92 130	348 301 348	37 36 37 17 17 17 11 14 11 283 234 283	3,953 4,143 3,946	3, 633 3, 776 3, 629 17 20 17 26 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26
	Total Male	Alberta 30,691 15,682 1	Division No. 1 628 320	Bow Island, t. 14 6 Medicine Hat, c. 396 200 Redcliffe, t. 34 17 Other	Division No. 2 1,541 766	Brooks, t. 83 44 Coaldale Lethbridge, c. 627 329 Picture Butte, t. 6 3 Taber, t. 105 51 Other	Division No. 3 575 303	Cardston, t. 55 31 Clare sholm, t. 35 21 Fort Macleod, t. 35 17 Magrath, t. 59 29 Other	Division No. 4 275 121	Hanna, t. 45 24 Other 230 97	Division No. 5 650 302	Drumheller, c. 73 36 Three Hills, t. 34 17 Vulcan, t. 25 14 Other 518 235	Division No. 6 8,112 4,159	Calgary, c. 4,714 3,785 Didsbury, t. 37 20 High River, t. 36 26

TABLE 1 GENERAL SUMMARY OF VITAL STATISTICS FOR CENSUS DIVISIONS AND INCORPORATED

	Mater- nal Deaths	1	1 1 1 1	1	+ + + + + + +	1	1 1 1 1 1	ı	1 ( ( 1 1 1 1	2	110111114
		5	11126	9	11121616	~	11110	1	1 1 1 1 1 1 1	21	11611112
	Post Neonatal M F	4	11416				1 1 1 1	2	0111110	21	1 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
INFANT DEATHS		2		1	1 1 1 1 1 1 1 1	1	1 1 1 1	_	11111	4	1 14 1 1 1 1 1 1
	7-27 Days M F	1	1 1 1 1 1	-	111111	1	6 1 C 1 1	t	1 1 1 1 1 1	2	11811111
	ys F	9	12212	10	3 - 1 - 3 5 - 1	4	18181	00		46	211111387
	Under 7 Days M F	3	2 - 1 - 1 - 2	6	1112171	4	11122	7	8114118	57	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	tal F	13	0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16	0 - 2 - 5	2	12126	6	-111110	7.1	61 61 7
	T dot	7		18	0 - 1 - 8 - 1 - 9	2	11126	12	0 1 1 1 2	80	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Deaths in Hosp.	242	12 6 29 43 152	381	18 14 10 33 10 8 23 14 16 16 16 18	111	14 22 22 - 27 48	440	92 32 4 29 23 25 25 3	1,924	1,593 1,593 15 17 17 16 37 215
	eaths Fem.	123	10 4 22 23 23 64	509	111 117 62 62 117 117 76	59	6 8 8 1 18 27	244	79 16 13 13 11 113	1,003	829 66 10 22 10 10 102
	Total D Male	192	8 3 18 28 135	340	255 255 255 957 7 119 8	89	10 16 - 19 44	411	106 20 3 30 16 8 8 228	1,639	1,293 1,293 17 23 26 11 288 229
	Marri- ages	312	19 27 70 42 154	648	272 272 272 449 130	153	23 6 16 101	520	111 84 6 65 28 22 204	4,698	4, 147 29 40 40 45 86 266
HS		3	11116	9		~	- 1 1 1 2	5	8 8	42	1 1 4 1 2 1 1 1 9
STILLBIRTHS	28+ weeks M	9	1144	Ŋ	18 18 18 18	7	1 1 1	4	111-116	43	33.1
FILL	20-27 weeks M F	ı	1 1 1 1	2	1 + 1 1 1 1 1 1 1 1 2	1	1 1 1 1 1	1		12	
S		1	1 1 1 1 1			- 1	1 1 1 1 1			18	1 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 2 1
	Illegitimate fale Fem.	17	1 1 2 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 1 2 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1	66	1 8 8 8 8 8 1 1 2 55 3 3 3 4 4 5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7	33	1 2 2 2 5 2 5 6	25	22 23 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	260	50102
	Illeg	17	1 3 1 1 1	109	1 10 27 27 3 3 14 12 52	22	10	28	32.37	649	564 2 2 1 1 1 1 2 6 6 6 6 6 6 6 6 6 6 6 6 6
RTHS	Hospital e   Fem.	325	8 36 43 229	752	24 32 50 249 19 42 42 322	155	6 17 15 112	543	74 42 10 34 22 10 351	5,055	4, 236 30 30 21 999 155 545
BI	In Ho Male	349	10 36 39 39 258	773	29 30 41 41 248 16 47 47 10 352	148	9 12 6 18 103	548	81 45 3 255 27 27 360	5,387	64,483 4,483 452 121 121 14 60 577
LIVE	Fem.	329	36 4 3 4 3 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	754	24 32 50 249 19 43 43 323	156	175	545	74 42 10 34 22 22 10 353	5,066	4, 237 230 30 21 999 157 555
	Male	357	10 36 39 266	777	24 355 355	150	9 12 6 18 105	549	81 3 45 25 27 27 361	5,403	6 4,489 46 22 121 121 14 60 586
	Total	989	14 19 72 82 499	1,531	53 62 62 91 497 35 91 678	306	15 29 11 33 218	1,094	155 87 13 59 49 17	10,469	13 104 8,726 76 43 220 29 117 1,141
		Division No. 7	Castor, t. Provost, t. Stettler, t. Wainwright, t	Division No. 8	Innisfail, t. Lacombe, t. Ponoka, t. Red Deer, c. Rimbey, t. Rocky Mrn. House, t. Sylvan Lake, t. Other	Division No. 9	Bellevue, vl. Blairmore, t. Canmore, vl. Coleman, t. Other	Division No. 10	Camrose, c. Lloydminster, c.(pt) Two Hills, t. Vegreville, t. Vermillon, t. Viking, t.	Division No. 11	Devon, t. Drayton Valley, t. Edmonton, t. Leduc, t. St. Albert, t. Stony Plain, t. Wetaskiwin, c. Other

TABLE 1
GENERAL SUMMARY OF VITAL STATISTICS FOR CENSUS DIVISIONS AND INCORPORATED URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1967

Division No. 12 1,320  Bonnyville, t. 64  Cold Lake, t. 44  Fort McMurray, t. 138  Grand Centre, t. 58  St. Paul, t. 58  Other Biche, t. 58  Other 856	Male 670 843 84 852 854 858 858 858 858 858 858 858 858 858	Fem. 650 20 20 20 21 441 424 424 394 394 8	In Hospital Male Fen 664 6 34 24 61 34 27 58 426 426 426 392 333	n. 43	Illegitimate		20-27 weeks M F		- ex	Marri-	Total Deaths	5	Deaths					7 - 6		Post		Mater
112, t., t., t., t., t., t., t., t., t., t.		Fem. 650 20 20 20 20 20 20 20 20 20 20 20 20 20			210		-	7	-			aths	in	Tota	al	7 Da	-	Days			atal	nal
112, t. t. t. t.	647 344 644 644 644 644 644 644 644			643	מזע	Fem.		IVI	<u>-</u>	ages	Male	Fem.	Hosp.	M	Ĺų	M	Ĺı	Z	ĹΉ	M	[TI	Deaths
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ty, t. t. t.	24 432 432 432 396 14 133 833				3	41	1	1	t i	30	22	11	22	1 .		(	t	( )	1	1	- ,	1
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Vo. 13	396 396 14 33 29			31	<i>ا</i> د	r0 4	1 1	1	1 1	- 21	10	17	14	1	2 0	- I	n -	1 1	1 1	1 1	1 -	1 1
	396 14 33 29	394		417	49	55	П		2	17	144	79	145	12	10	9	. 70	-	1	S	. 70	1
	14 33 8 29	19		388	33	35		1	4	5 306	217	111	228	16	∞	10	9	-	1	20	2	ı
Athabasca, t. 33	33	19		19	3	3	1	- (	- 1	1 33	8	4	5	- 1	1	t	1	- 1	T	- 1	- 1	- (
Barrhead, t. 52	8	00	_	19	3	-	1	1	1	- 55	20	11	23	3	1	3	1	1	ı	1	1	ı
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Westlock, t. 626	317	314	308	309	76	23		1	- 4	3 148	184	86	183	- 2	1 00	- 1	1 4	. ~	1 1	I LC	1 ^	1 1
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Whitecourt, t. 55 Other 191	66	26	94	98	10	7	- I	1 1		- 24	46	13	34	1 4	1 4	1 4	- 2	1 1	1 1	1 1	- 2	1 1
ision No. 15 2,	1,160	1,068	1,119	1,035	193	155	,	3	2 1	1 659	333	168	339	23	33	13	6	2	1	7	23	-
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Grande Prairie, c. 281	141	140	141	140	2 1	10	1 1			1 134	0 2	97	2 5	ν -	1 1	7 -	1	t i	1 1	~	1	i i
t.	33	36	33.	36	14	1	- 1	<u> </u>	2		12	6	18	2	-	-		1	- 1		1	1
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Spirit River t. 13	9	71	9	7 2	٦ ١	٦ ١	1 1	1 1	1 1	- 12	1 (*)		1 4	. –	- I	. –	1 1	1 1	1 1	) !	- I	1 1
	3	5	3	5	1	4	1				-1	-1	1	,	1	1	ı	1	ı	1	1	1
		22	22	22	0	2	1	-	1 1	- 22	7		9	-	ı		ι	1	1	1	1	1
Other   1,482		969		663	141	115	ı	<u> </u>			203	112	195	15	29	_	2	~	1	2	21	ı

TABLE 2
DEATHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE, 1967

						PL	PLACE OF RESIDENCE	RESIDE	NCE						
	Total	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon	N.W.T.	U.S.A.	Other
Total residence	151,191	3,117	1,038	8:99'9	4,894	38,665	54,878	7,629	7,441	9,523	16,170	73	217	730	178
Newfoundland	3,132	3,068	1	<del></del>	4	4	က	I	1	_	1	1	I	8	48
Prince Edward Island	1,017	ı	1,004	7	-	n	ı	I	-	I	I	-	İ	-	1
Nova Scotia	099'9	11	24	6,553	28	9	14	1	I	2	1	1	I	16	9
New Brunswick	4,932	2	2	24	4,781	53	11	2	<b>—</b>	j	2	1	ı	48	9
Ouebec	38,452	14	2	11	27	38,057	151	7	2	က	2	-1	4	137	32
Ontario	55,197	21	m	16	18	357	54,268	35	17	21	18	i	1	370	53
Manitoba	7,655	ı	ı	4	1	വ	20	7,486	29	വ	0	I	13	19	വ
Saskatchewan	7,352	1	1	1	1	2	12	31	7,212	57	18	ł	1	19	_
Alberta	9,539	1	ı	2	<del></del>	D	14	6	81	808'6	63	1	24	23	6
British Columbia	16,298	1	ı	က	2	10	26	26	43	85	15,991	7	-	98	200
Yukon	9/	ı	ı	ı	1	ı	1		I	1	2	99	İ	8	1
Northwest Territories	188	1	1	1	-	7	1	1	-	4	1	1	175	ı	I
United States	693	-	က	17	31	156	329	33	24	37	62	1	ı	1	ı

TABLE 3

DEATHS AND HOSPITAL DEATHS BY OCCURENCE AND RESIDENCE FOR CENSUS DIVISIONS AND INCORPORATED URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1967

		TOTAL	TOTAL BY RESID.	OCCUR. F	RESID.	TOTAL BY	HOSPITAL TOTAL BY RESID.	OCCUR. I	RESID.
01	DIVISION 1								
040 047	BOW ISLAND MEDICINE HAT REDCLIFF TOTAL	9 290 3 311	12 254 10 316	5 52 1 25	8 16 8 30	5 250 255	9 217 6 262	2 44 16	6 11 6 23
02	DIVISION 2								
014 035 081 046	BROOKS COALDALE LETHBRIDGE PICTURE BUTTE RAYMOND TABER TOTAL	43 17 364 2 18 33 558	28 20 324 2 15 26 555	19 3 78 1 7 17 65	4 6 38 1 4 10 62	33 16 291 1 16 30 417	21 19 239 1 12 23 407	16 3 76 1 7 16 52	4 6 24 1 3 9
03	DIVISION 3								
012 013 025 037 044	CARDSTON CLARESHOLM FORT MACLEOD MAGRATH PINCHER CREEK TOTAL DIVISION 4	23 46 48 8 53 227	18 25 40 12 33 241	8 28 15 3 28 35	3 7 7 7 8 49	19 43 33 7 47 164	15 20 27 11 25 175	6 28 11 3 25 28	2 5 5 7 3
028	TOTAL TOTAL	33 77	32 110	14	13 44	27 45	26 80	13 6	12 41
05	DIVISION 5								
057	DRUMHELLER THREE HILLS VULCAN TOTAL	108 11 24 225	63 13 22 291	54 4 7 23	9 6 5 89	86 9 16 133	45 10 15 201	49 4 5 10	8 5 4 78
06	DIVISION 6								
018 030	CALGARY DIDSBURY HIGH RIVER OLDS TOTAL	52 54 30	2,117 20 36 29 2,411	304 35 25 16 241	136 3 7 15 145	46 40 27	26	245 32 20 16 186	83 3 6 12 92
07	DIVISION 7								
076 053	CASTOR PROVOST STETTLER WAINWRIGHT TOTAL	21 20 54 62 271	18 7 40 51 315	8 13 24 19 28	5 10 8 72	17 19 48 55 207	12 6 29 43 242	7 13 23 17 24	2 4 5 59
08	DIVISION 8								
033 045 048 072 050	INNISFAIL LACOMBE PONOKA RED DEER RIMBEY ROCKY MOUNTAIN HOUSE SYLVAN LAKE TOTAL	33 21 119 227 24 36 5	24 24 42 157 12 31 19 549	20 9 83 84 17 16 2	11 12 6 14 5 11 16	25 12 107 157 20 26	18 14 33 103 8 23 14 381	16 5 80 66 15 13	9 7 6 12 3 10 14 86
09	DIVISION 9								
005 0 <b>7</b> 9	BELLEVUE BLAIRMORE CANMORE COLEMAN TOTAL	1 1 1 7 135	16 24 37 148	1 1 40	15 23 31 53	1 86	14 22 27 111	1	14 22 27 42
10	DIVISION 10								
036 085 058 059	CAMROSE LLOYDMINSTER %PT.< TWO HILLS VEGREVILLE VERMILION VIKING TOTAL	223 21 4 64 22 39 569	185 36 4 43 27 19 655	47 6 2 35 5 21 55	9 21 2 14 10 1	132 17 4 54 21 23 357	92 32 4 29 23 7	45 6 2 34 5 17 41	5 21 2 9 7 1
	TOTAL								

TABLE 3

DEATHS AND HOSPITAL DEATHS BY OCCURENCE AND RESIDENCE FOR CENSUS DIVISIONS AND INCORPORATED URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1967

	TOTAL	TOTAL BY	DEATHS. OCCUR. T= RESID.	RESID.	TOTAL BY	HOSPITAL TOTAL BY RESID•	OCCUR.	RESID.
11 DIVISION 11  017 DEVON 019 DRAYTON VALLEY 021 EDMONTON 026 FORT SASKATCHEWAN 034 LEDUC 051 ST. ALBERT 054 STONY PLAIN 063 WETASKIWIN TOTAL 12 DIVISION 12	3 22 2,603 31 51 33 20 83 3,043	5 13 2,122 23 33 48 21 46 2,642	1 13 678 13 28 3 9 46	3 4 197 5 10 18 10 9	1; 2,09; 2; 3; 1, 6; 2,34	10 2 1,593 3 15 3 17 17 4 16	614 11 23 8 38	2 4 115 3 7 17 10 6 81
006 BONNYVILLE 015 COLD LAKE 039 FORT MCMURRAY 066 GRAND CENTRE 069 LAC LA BICHE 052 ST. PAUL TOTAL	41 16 22 1 28 45 276	33 6 13 9 19 36 339	14		3 1 1 2 3 16	5 5 6 12 7 3 14 5 25	13 9 11 14	6 3 5 7 2 4 75
OOL ATHABASCA OO2 BARRHEAD O49 REDWATER O62 WESTLOCK TOTAL	30 57 3 54 247	7 31 8 12 328	28 3	1	2 4 5 15	9 23 8 1 9	26 42	2 8 92
14 DIVISION 14  022 EDSON 068 HINTON 077 WHITECOURT TOTAL	20 16 10 85	33 23 7 122		15 4	1 1 3	1 11	7 5	18 7 2 53
15 DIVISION 15  078 BEAVERLODGE 023 FAIRVIEW 027 GRANDE PRAIRIE 067 GRIMSHAW 029 HIGH PRAIRIE 080 MANNING 038 MCLENNAN 043 PEACE RIVER 082 SLAVE LAKE 083 SPIRIT RIVER 073 VALLEYVIEW TOTAL	8 24 117 37 5 19 41 2 8 8	8 11 91 8 21 4 8 22 1 4 8 501	5 16 44 21 3 12 26 1 7 5	3 18 8 5 2 1 7	2 10 3 1: 3	5 73 5 2 18 5 3 8 6 3 16 6 4 4 6	15 40 19 3 12 20	3 3 8 5 5 1 3 3
PROVINCE TOTAL	9,539	9,523	231	215	6,86	5 6,839	143	117

TABLE 4

CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA, 1967

	I. INFECTIVE AND PARASITIC DISEASES.	Total Alta.	Census Div. 1	Census Div. 2	Census Div. 3	Census Div. 4	Census Div. 5	Census Div. 6	Census Div. 7	Census Div. 8	Census Div. 9	Census Div. 10	Census Div. 11	Census Div. 12	Census Div. 13	Census Div. 14	Census Div. 15
	TUBERCULOSIS (A1-A5).	10	ပိ	Č	ပိ	ပိ	ပိ	ပိ	ပိ	ဝိ	ပိ	Ce	Če	ర	ပိ	Ce	Č
А	1 RESPIRATORY.																
	A ACTIVE M F T	22 6 28	-	1 1	1 1 2	-	$\frac{1}{1}$	5 - 5	-	3 - 3	- - -	1 - 1	7 3 10	- 1 1	3 - 3	-	- 1 1
	B INACTIVE (002.2, 008.2) M F T	1 2 3	- -	- - -	- -	- - -	-	- - -	- - -	-	-	- 1 1	1 - 1	-	- - -	-	- 1 1
	TOTAL (A1) M F T	23 8 31	-	1 1	1 1 2		1 - 1	5  5	- - -	3 - 3	-	1 1 2	8 3 11	- 1 1	3 - 3	-	- 2 2
А	2 MENINGES AND CENTRAL M NERVOUS SYSTEM F T	- - -	-	- - -	- - -	-	-	-	-	-	-		-	- - -	-	-	-
Α	3 INTESTINE, PERITONEUM AND M MESENTERY F T	- - -	- - -	- - -	- - -	- - -	-	-		- - -	-	-	- - -	-	- - -	- - -	-
А	4 BONE AND JOINT M F T	-	- - -	-	-	-	-	-	- - -	-	-	-	=	-	- - -	-	- - -
А	5 OTHER FORMS M F T	1 1 2	- 1 1	-	- - -	-	-	- - -	1 1	-	-	-	-	- - -	-	-	-
	TOTAL (A1-A5)	24 9 33	1 1	1 1	1 1 2	-	1 - 1	5  5	1 - 1	3 - 3	-	1 1 2	8 3 11	- 1 1	3 ~ 3	-	- 2 2
	SYPHILIS (A6-A10).																
Α	6 CONGENITAL M F T	- - -	- - -	-	- - -	- -	- - -	-	-	-	-	-	-	- -	-	-	- - -
А	7 EARLY M F T	- - -	- -	-		- -	- - -	- - -		- - -	- - -		Ē	-	-	-	-
Α	8 TABES DORSALIS M F T	-	- -	- - -	- - -	-	- - -	-	- - -	- - -	-	-	-	-		-	-
Α	9 GENERAL PARESIS M F T	- - -	-	-	-	=	- - -	-	- - - ,	-	-	-	- - -	-	- - -	- - -	<u>-</u> -
Α	10 OTHERS M F T	6 - 6	- - -	-	-	-	- - -	3 - 3	- - -	- - -	- - -	-	1 - 1	1 Î	1 - 1	-	- - -
	TOTAL (A6-A10) M F T	6	- -	-	-	-	-	3 - 3		-	- - -	-	1 - 1	1 1	1 - 1	-	- - -
Α	11 GONOCOCCAL INFECTION M F T	-		-	-	-	-	-	- - -	- - -	-	-			- - -	- - -	-
А	12 TYPHOID M F T	-	- - -	- - -	-	- - -	-	- - -	-	- - -	-	-	-	-	-	-	-
	13 PARATYPHOID AND OTHER M SALMCNELLA F T	-	- - -	- - -	-	-	-	- -	-	-	=	-	-	-	-	-	-
Α	14 CHOLERA M F T	- - -	- -	-		-	-	-	=	-	-	- - -	-	-	-	-	-
	15 BRUCELLOSIS M F T		-	-	- -	-	=	- - -	-	-		-	=	-	-	=	-
	16 DYSENTERY M F T	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-
	17 SCARLET FEVER M F T	-	=	-	-	-	-	-	-	-	_	-	-	-	-	-	-
	18 STREPTGCOCCAL SORE THROAT M F T	- -	-	-	-	-	-	-	-	=	-	-	=	-	-	-	Ī
4	19 ERYSIPELAS M F T		-	-		- - -		-	-	-	-	-	-	-	-	_	-

TABLE 4

CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA, 1967

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LIST A CAUSE OF DEATH NO. INTERMEDIATE LIST A (SEVENTH REVISION)	Total Alta.	Census Div.	Census Div.	Census Div.	Census Div.	Census Div.	Census Div.	Census Div.	Census Div.	Census Div.	Census Div.	Census Div.	Census Div.	Census Div.	Census Div.	Census Div.
A 20 SEPTICAEMIA AND PYAEMIA M	2 2	-	-	- 1	-	-	1	-	-	-	-	_	-	-	-	1 -
A 21 DIPHTHERIA		-	-	- - -	-	-	- - -	-		-	-	- -	-	-	-	1 - -
A 22 WHOOPING COUGH M	3	Ĩ.	-	1	-	-	-	Ξ	-	Ξ	1	=	-	-	_ _ 1	-
A 23 MENINGOCOCCAL INFECTIONS M	3 1 1 2	1	-	- - -	-	-	-	-	-	-	1 - -	-	-	-	1 - -	1 1
A 24 PLAGUE M	-	- - -	-	-	-	-	-	- - -	-	-	-	-	-	-	-	-
A 25 LEPROSY M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 26 TETANUS M	-	-	=	-	-	-	-	-	-	-	-	-	-	-	-	-
A 27 ANTHRAX M	-	- -	-	-	-	-		-	-	-	-	-	-	-	-	-
A 28 ACUTE POLIOMYELITIS M		-	-	-	-	-	- -	-	-	-	-	- -	-	- -	-	-
A 29 ACUTE ENCEPHALITIS M	- 4 2	-		-	- - -	-	1 1	-	-	-	- 1	1 -	-	-	- - -	2 -
A 30 LATE EFFECTS OF POLIO M MYELITIS AND ENCEPHALITIS F	6 - -	-	-	-	-	-	2 - -	-	-	- - -	1 - -	1 - -	-	-	-	2 - -
A 31 SMALLPOX M	-	-	-	-	-	-	- - -	-	_	-	-	-	-	-	-	-
A 32 MEASLES	- 1 5	-	-	- - 2	-	- - 1	- 1 1	-	- - 1	-	-	-	-	-	-	-
T A 33 YELLOW FEVER M	6	-	-	2	-	i -	2	-	ī -	-	-	-	_	-	-	-
A 34 INFECTIOUS HEPATITIS M	- 2 2	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
A 35 RABIES	4	-	-	-	-	-	-	-	-	-	1 -	3	-	-	-	-
A 36 TYPHUS AND OTHER RICKETT- M			-	-	-	-	-	-	-	-	-	-	-	-		-
SIAL DISEASES F T A 37 MALARIA	-		-	-	-	-	=	-	=	=	-	=	-	Ξ.	-	-
F	-	_	-	-	-	-	-	-	_	Ī	-	_	-	-	-	-
A 38 SCHISTOSOMIASIS M F T	-	- -	-	-	-	-	-	-	-	-	-	_	-		-	-
A 39 HYDATID DISEASE M F T	-	- -	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 40 FILARIASIS M F T	- - -			-	-	- -		-	- -	=	-	- - -	-	-	-	-
A 41 ANKYLGSTOMIASIS M F T	- - -	-	-	- - -	-	-	-	-	-	-	-	-	=	-	-	-
A 42 OTHER DISEASES DUE TO M HELMINTHS F	-	-	-	-	-	- -	-	-	-	-	-	-	-	-	-	-
A 43 OTHER M F	2 5 7	- 1 1	1 - 1	- 1 1	-	-	- 1 1	-	-	- - -	- 1 1	1 1 2	-	-	-	-
TOTAL (A1-A43) # F	42 29 71	1 2 3	2 - 2	1 6 7	-	1 1 2	11 4 15	1 - 1	3 1 4	Ξ	1 5 6	13 5 18	1 1 2	<del>4</del> <del>-</del> 4	- 1 1	3 3 6

TABLE 4

CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA, 1967

			-	2	m	4	D.	9	7	100	6	10	11	12	13	14	15
LIST NO.		ol al Alta.	sus Div.	sus Div.	Census Div.	ensus Div.	sus Div.	sus Div.	sus Div.	sus Div.	sus Div.	sus Div.	sus Div.	sus Div.	sus Div.	isus Div.	sus Div.
	II. NEOPLASMS.	Total	Census	C∉nsus	Cen	Cen	Census	Census	Census	Censi	Census	Census	Censu	Census	Census	Cens	Cens
	MALIGNANT NEOPLASMS (A44-A59																
		M 21 F 7 T 28	1 1	1	-	2 - 2	1 - 1	5 1 6	1 - 1	1 1		-	11 3 14	-	-	-	1 1
Α 4		M 22 F 8 T 30	-		-	2 - 2	2 - 2	4 2 6	1 1	2 2 4	-	1 1 2	8 3 11	-	-	1 - 1	1 1
A 4		M 115 F 55 T 170	3 3 6	9 1 10	1 1 2	1 - 1	5 5 10	17 13 30	1 2 3	3 1 4	- 2 2	14 4 18	38 11 49	4 2 6	12 6 18	2 - 2	5 4 9
Α 4		94 F 96 T 190	4 5 9	5 6 11	3 3 6	2 2 4	5 1 6	18 28 46	2 3	6 3 9	1 1 2	11 6 17	27 32 59	1 - 1	5 1 6	1 1 2	4 5 9
Α 4		M 51 F 31 T 82	3 3 6	5 3 8	1 1 2	1 - 1	1 1 2	11 6 17	3 - 3	1 2 3	-	4 1 5	17 12 29	-	2 1 3	1 - 1	1 1 2
Α 4		M 15 F - T 15	1 - 1	=	2 - 2	<u>-</u>	-	3 - 3	-	3 -	=	1 - 1	2 - 2	1 1	2 - 2	-	-
Α !	50 TRACHEA, BRONCHUS, AND LUNG NOT SPECIFIED AS SECONDARY	M 209 F 42 T 251	7 4 11	8 5 13	2 - 2	2 - 2	5 2 7	56 7 63	13 1 14	8 2 10	6 - 6	10 6 16	66 10 76	11 2 13	4 1 5	4 -	7 2 9
A !		M 1 F 155 T 156	- 5 5	- 5 5	- 1 1	- 4 4	7 7	- 44 44	- 7 7	- 6 6	- 6 6	- 4 4	- 42 42	1 8 9	- 9 9	- 1 1	6
A !	52 CERVIX UTERI		-	1	1	1	_	16	_	2	_	_	8	_	1	_	1
A :	53 UTERUS, OTHER PARTS	F 18	1	-	-	-	1	4	-	-	-	2	5	-	2	1	2
Α !	54 PROSTATE	M 99	5	7	4	2	2	26	1	8	1	6	26	1	-	2	8
A !	55 SKIN	M 14 F 6 T 20	-	- - -	1	- - -	1 - 1	1 3 4	-	1 1 2	-	2 1 3	6 1 7	-	-	-	2 - 2
Α !		M 10 F 10 T 20	-	1 - 1	- - -	1 - 1	-	4 5 9	-	1 1 2	-	- 1 1	2 3 5	-	-	-	1 1
Α !	57 OTHER AND UNSPECIFIED SITES.																
		M 96 F 70 T 166	4 8 12	3 5 8	-	3 1 4	2 2 4	20 16 36	2 ` 2	11 5 16	3 3 6	7 4 11	25 21 46	6 4 10	2 1 3	2 - 2	6 - 6
		M 3 F - T 3	-	-	-	-	-	- - -	-	- - -	-	1 1	2 - 2	-	-	- - -	=
	1200, 201,	M 68 F 27 T 95	2 2 4	- 1 1	1 - 1	-	- 1 I	12 9 21	2 1 3	2 3 5	1 1 2	6	26 8 34	6 - 6	5 1 6	1 - 1	4
	(193)	M 33 F 19 T 52	1 1	1 1 2	-	- - -	1 - 1	7 5 12	- - -	2 - 2	- 1 1	4 1 5	12 10 22	1 1	3 - 3	-	2 - 2
	E STILL STIL	M 36 F 97 T 133	- 5 5	- 4 4	- - -	- 1 1	2 1 3	28 36	-	3 9 12	- 1 1	4 6 10	14 33 47	- 3 3	1 4 5	- 1 1	4 1 5
		M 236 F 213 T 449	6 16 22	4 11 15	$\frac{1}{1}$	3 2 5	5 4 9	47 58 105	4 1 5	18 17 35	4 6 10	22 11 33	79 72 151	13 7 20	11 6 17	3 1 4	16 1 17
Α !		M 56 F 31 T 87	3 3 6	5 3 8	3 1 4	-	1 - 1	15 13 28	1 - 1	2 2 4	1 2 3	5 - 5	11 4 15	3 1 4	1 - 1	-	5 2 7
Α :	59 LYMPHATIC AND HAEMATOPOIETIC SYSTEM.																
		M 19 F 7 T 26	-	2 - 2	1 - 1	-	-	6	1 1	2 2 4	-	1	5 2 7	-	2 1 3	1 1	-
	B OTHER SECTION	M 44 F 23 T 67	1 1 2	5 2 7	-	1 1	1 1 2	16 7 23	1 1 2	1 1 2	-	2 1 3	11 6 17	-	3 1 4	-	2 2 4
		M 63 F 30 T 93	1 1 2	7 2 9	1 - 1	1 1	1 1 2	22 7 29	2 1 3	3 3 6	-	2 2 4	16 8 24	-	5 2 7	- 1 1	2 2 4
		M 1006 F 733 T 1739	33 42 75	51 38 89	19 8 27	17 9 26	29 22 51	229 207 436	28 14 42	56 43 99	13 17 30	78 39 117	309 214 523	35 20 55	42 29 71	14 5 19	53 26 79

TABLE 4

CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA, 1967 6 9 00 Di√. Ö.≺ Di√. Ö. Ďi Di∨ Div. Di√. Di∨ Di√. Div ≥ O Alta. CAUSE OF DEATH LIST Census Census Census Census INTERMEDIATE LIST NO. (SEVENTH REVISION) Cen Cen Cen Cen Cer Cel 60 BENIGN AND UNSPECIFIED .... M 14 5 19 31 22 TOTAL (A44-A60). ...... M 1015 51 19 17 229 28 57 13 80 311 36 1757 90 27 26 53 440 42 101 30 119 528 56 80 III, IV. ALLERGIC, ENDOCRINE, METABOLIC AND BLOOD DISEASES. 61 NON-TOXIC GOITRE ..... M 30 90 63 DIABETES MELLITUS ..... M 6 179 64 NUTRITIONAL DEFICIENCY .... M STATES 65 ANAEMIAS ..... M 11 66 DTHER ..... 37 14 18 62 15 31 40 TOTAL (A61-A66). ..... M 141 10 10 22 68 261 V. MENTAL. PSYCHONEUROTIC AND PERSONALITY DISORDERS. 68 PSYCHONEUROTIC AND PERSONA- M 9 LITY DISORDERS 69 MENTAL DEFICIENCY ..... H TOTAL (A67-A69). ..... M 10 12 VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS. 70 CEREBROVASCULAR LESIONS ... M 549 F 470 29 29 54 13 14 31 29 1019 46 58 36 283 88 16 68 244 45 71 NON-MENINGOCOCCAL ...... M MENINGITIS 72 MULTIPLE SCLEROSIS ..... 11 73 EPILEPSY ..... M 19 74 INFLAMMATORY DISEASES OF .. M THE EYE 75 CATARACT ...... 76 GLAUCOMA ..... M 77 OTITIS MEDIA AND ...... M MASTOIDITIS 78 OTHER ..... M 11 18 18 TOTAL (A70-A78). ...... 150 16

TABLE 4

		CAUSE OF DEATH BY SE	X FOR	CENSUS	DIVIS	SIONS	(INCL		CITIES	, TOW	/NS AND	VIL	LAGES	) IN A	LBERT	A, 1967	7	
LIS	T 10.	A CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)  VII. DISEASES OF THE	Total Alta.	Census Div. 1	Census Div. 2	Census Div. 3	Census Div. 4	Census Div. 5	Census Div. 6	Census Div. 7	C⊞nsus Div. 8	Census Div. 9	Census Div. 10	Census Div. 11	Census Div. 12	Census Div. 13	Census Div. 14	Census Div. 15
		CIRCULATORY SYSTEM.  HEART DISEASE (A79-A83).																
A	7	79 RHEUMATIC FEVER			_	_	-	_	_	_	_	_	_	_	_	_	_	_
		F		- -	-	-	-	_	_	_	-	-	_	_	_	_	-	_
Α	8	30 CHRONIC RHEUMATIC M F T	54	1	1 3 4	- 1 1	1 - 1	1 1 2	7 18 25	4	2 2 4	- 1 1	1 3 4	10 17 27	-	1 1 2	2 - 2	2 2
Α	8	BI ARTERIOSCLEROTIC AND M DEGENERATIVE F T	871	45	130 55 185	45 24 69	31 14 45	66 25 91	329 193 522	61 31 92	114 49 163	15 10 25	137 78 215	566 243 809	66 36 102	58 28 86	19 8 27	93 32 125
А	8	32 OTHERF F	72	-	7 7 14	3 3 6	1 - 1	-	26 18 44	4 5 9	4 5 9	2 - 2	9 4 13	23 21 44	1 2 3	10 3 13	- 2 2	2 2 4
Α	8	33 HYPERTENSIVE M F T	33 37	-	1 3 4	- 1 1	- - -	$\frac{1}{1}$	7 15	- 2 2	2 1 3	2 2 4	4 1 5	13 17 30		1 1 2	1 	1 1 2
		TOTAL (A79-A83) M F T	1034	46	139 68 207	48 29 77	33 14 47	68 26 94	369 237 606	65 42 107	122 57 179	19 13 32	151 86 237	612 298 910	67 38 105	70 33 103	22 10 32	96 37 133
A	8	34 HYPERTENSION M F T		) -	1 1 2	1 1	- - -	-	8 8 16	1 1	2 2	1 1 2	1 1 2	7 3 10	1 2 3	1 2 3	1 1	1 1
А	8	85 ARTERIAL DISEASES P F T	112	2 5	12 5 17	5 4 9	1 - 1	6 5 11	50 2 <b>9</b> <b>7</b> 9	7 7 14	6 2 8	3 - 3	10 6 16	32 32 64	1 II 2	3 4 7	3 3 6	8 9 17
А	8	86 OTHER	- 26	5 1	1 1 2	1 1	1 1	1 1	6 5 11	1 2 3	2 1 3	1 1	2 1 3	14 10 24	2 - 2	3 1 4	-	5 1 6
		TOTAL (A79-A86)   F 1		52	153 75 228	54 34 88	34 15 49	75 31 106	433 279 712	74 51 125	130 62 192	23 15 38	164 94 258	665 343 1008	71 41 112	77 40 117	26 13 39	110 47 157
		VIII. DISEASES OF THE RESPIRATORY SYSTEM.																
A	8	87 ACUTE UPPER RESPIRATORY F F 1		3 -	- - -	- 1 1	-	-	1 1 2	-	=	-	- - -	4 1 5	-	1 1	-	-
A	8	88 INFLUENZA	- 4	· -	-	- 2 2	-	1 - 1	1 2 3	1 - 1	-	-	4 - 4	- - -	-	-	-	-
		PNEUMONIA (A89-A91).																
А	8	89 LOBAR F F	17	2 -	1 1	1 1 2	-	1 1 2	3 4 7	1	-	1	1	6 2 8	-	-	-	3 4
Α	9	90 BRONCHO 8 F		5 2	5 1 6	3 2 5	1 1	4 - 4	16 16 32	4 1 5	4 3 7	3	18 8 26	21 27 48	6 1 7	4 2 6	1	8 7 15
А	9	91 ATYPICAL, OTHER,	5 5 4; F 10:	2 -	3 6 9	- 4 4	-	1 1 2	17 9 26	1 1	7 4 11	1 2	5 - 5	20 9 29	2 3 5	1 1 2	1 1 2	2 2
		TOTAL (A89-A91) F	129	9 2	9 7 16	4 7 11	1 1	6 2 8	36 29 65	5 2 7	11 7 18	2 4 6	23 9 32	47 38 85	8 4 12	5 3 8	1 2 3	9 12 21
		BRONCHITIS (A92, A93).		_										1		_		_
		92 ACUTE	F :	3 -	-	1	-	-	=	=	-	-	-	2	-	-	- - 2	- - 5
А	ç	93 CHRONIC AND UNQUALIFIED	F 1:	3 -	2 2	3 1 4	1	1 2 3	17 3 20	2 2 4	1 1	2 2	2 2	20 3 23	2 2	2 1 3	2	5
		TOTAL (A92, A93)	F 1.	4 – 7 –	2 - 2	4 1 5	1	3	17 3 20	2 2 4	1 1	2 2	2 2	21 4 25	2 - 2	1 3	2 2	5 5
Α		94 TONSILS AND ADENOIDS !	F .	2 - 2 - 4 -	-	-	-	2 - 2	=	=	=	-	1 1	1 1	-	-	-	-
Α	Ç	95 EMPYEMA AND LUNG ABSCESS	f .	2 -	=	-	-	-	2 - 2	-	-	-	-	-	-	-	-	-
Α	Ç		F	2 – 3 – 5 –	-	1 - 1	-	-	1 1	1	-	1	1 1	-	-	-	-	-

TABLE 4

CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA, 1967

				-	2	ω.	4	Ω.	9	. 7	00	6 .	. 10	. 11	. 12	, 13	. 14	. 15
LIST			Alta.	Div	Div.	Div	Div	Div	Div	Div.	Div.	Οi	Div.	Div	Div.	Div	. Div.	Div.
140	(SEVENTH REVISION)			Cansus	Census	Census	Census	Census	Census	Census	Census	Census	SINE	nsns	nsns	nsus	Census	Census
		_	Total								ပ္သ	<b>3</b>	ű	34	2 Ce	5	o 1	3
A	97 OTHER	F T	103 37 140	3 1 4	8 - 8	3 - 3	3 - 3	3 1 4	24 12 36	3 1 4	3 5	2 5	6	13	1 3	2 7	1 2	3
	TOTAL (A87-A97)	F	356 192	8	19	12 11	4 1 5	13 5 18	81 48 129	12 5 17	13 11 24	7 7 14	35 11 46	106 57 163	12 5 17	13 6 19	4 3 7	17 12 29
	IX. DISEASES THE DIGESTIVE SYSTEM.	T	548	11	26	23	,	10	127	11	24	14	40	103		.,		.,
A	98 DISEASES OF THE TEETH	M F T	-	- - 	- - -	- -	-	- - -	Ξ	-	- - -		=	-	-	-	-	- -
A	99 ULCER OF THE STOMACH	M F T	15 9 24	1 1	1 - 1	1 - 1	=	2 2 4	3 3 6	- 2 2	1 1	1 - 1	1 - 1	3 - 3	-	2 1 3	-	
A 1	100 ULCER OF THE DUODENUM		21	-	3	1 _	1 -	2 -	3 2	1 2	- 2	2 -	-	6	1 -	1 _	-	-
		Ŧ	32	-	4	1	1	2	5	3	2	2	-	10	1	1	~	-
A 1	101 GASTRITIS AND DUODENITIS	F T	1 - 1	-	-	-	-	-	-	=	-	1	-	-	-	-	-	=
A 1	102 APPENDICITIS	. M	7	-	-	_	_	-	3	-	1 _	-	-	1	_	-	-	2
		Ť	7	-	-	-	-	-	3	-	1	-	-	1	-	-	-	2
* 1	103 INTESTINAL OBSTRUCTION AND HERNIA	F T	36 23 59	- 2 2	4 2 6	2 1 3	1	-	14 3 17	2 II 3	2 4 6	2 1 3	1 1 2	4 4 8	1 2 3	2 1 3	1 1	1
A 1	104 GASTRO-ENTERITIS AND COLITIS	F T	20 36 56	- 3 3	1 2 3	1 2 3	- 1 1	1 - 1	3 8 11	2 - 2	1 1 2	$\frac{1}{1}$	1 5 6	3 7 10	2 4 6	2 - 2	-	2 3 5
# 1	105 CIRRHOSIS OF LIVER	M F T	48 29 77	1 - 1	3 - 3	1 - 1	-	1 - 1	20 8 28	- 1 1	- 2 2	-	8 1 9	11 14 25	- 1 1	Ξ	1 - 1	2 2 4
A 1	106 CHOLELITHIASIS AND CHOLECY- STITIS	- M F T	17 27 44	- 1 1	3	1 1 2	-	1 - 1	4 2 6	2 1 3	1 4 5	-	1 2 3	4 7 11	1 2 3	1 1 2	- 1 1	1 2 3
A 1	107 OTHER	m F	43 20	1 -	2	2	-	-	11 7	5 1	3 2 5	3	3 1 4	6 1	3 1 4	1 - 1	2 1 3	1 3 4
	TOTAL (A98-A107)	T H	208	2	14	9	2	7	61	12	9	10	15	38	8	9	3	9
	V DYCEACCE OF THE CENTRO	F	155 363	7	11 25	13	3	9	33 94	20	15 24	11	10 25	37 75	10	12	6	10
	x. DISEASES OF THE GENITO- URINARY SYSTEM.																	
A 1	108 ACUTE NEPHRITIS	, M F T	2 - 2	-	1 - 1	-	-	-	-	-		- - -	-	1 - 1	-	-	-	-
A 1	109 CHRONIC AND OTHER NEPHRITIS	S M	30 20	1 _	3	_	1	- 1	8 9	2	3	1 -	2 2	6	1 -	2	-	_ 1
A 1	110 INFECTIONS OF KIDNEY	T	50 22	1 2	3	<del>-</del> 2	2	1	17 5	2	4 5	1	4	11	1 2	2	-	1
	TIO THE CONTOURS OF A LONG.	F	19	1 3	2 2	2	-	1 1	4 9	-	1 6	1	1	5	2	2 2	-	2 2
A 1	111 CALCULI	. M F T	2 4 6	-	- 2 2	=	-	-	-	-	=	-	-	2 2 4	-	-	-	=
A 1	112 HYPERPLASIA OF PROSTATE		27	2	5	_	1	1	9	1	_	1	2	2	_	2	_	1
A 1	113 BREAST		-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-
		F T	-	-	-	_	_	-	-	_	-	_	-	_	=	-	-	
Α.	114 OTHER	F T	11 17	1	-	-	-		1 6 7	-	- - -	-	1	4 3 7	-	-	1	=
	TOTAL (A108-A114)	. H F T	89 54 143	5 2 7	9 4 13	2 - 2	2 1 3	1 2 3	23 19 42	3 -	2 10	3 - 3	4	20 15 35	3 - 3	4 2 6	1 - 1	1 3 4
	XI. COMPLICATIONS OF PREG- NANCY, CHILDBIRTH, AND PUERPERIUM.								12					3,5				
А	115 SEPSIS	. F	-	-	-	-	_	-	-	-	-	-	_	_	-	-	-	-
	116 TOXAEMIA		2	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-
	117 HAEMORRHAGE		2	-	-	-	-	1	-	-	-		-	1	-	-	-	-
А	118 ABORTION WITHOUT SEPSIS OR TOXAEMIA	F	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-

						TABL											
CAUSE	E OF DEATH BY S	EX FOR	CENSU	S DIVI:	SIONS	(INCL	UDING	CITIES	, TOW	'NS AND	VILI	LAGES)	IN A	LBERTA	A, 1967		
NO. INTERN	USE OF DEATH MEDIATE LIST A ENTH PEVISION)	Total Alta.	Census Div. 1	Census Div. 2	Census Div. 3	Census Div. 4	Census Div. 5	Census Div. 6	Census Div. 7	Census Div. 8	Census Div. 9	Census Div. 10	Census Div. 11	Census Div. 12	Census Div. 13	Census Div. 14	Census Div. 15
A 119 ABCRTION WI	ITH SEPSIS	F -	-	-	_	_	_	-	_	_	_	_	_	_	-	_	_
	• • • • • • • • • • • • • • • • • • • •		-	-	-	-	-	-	-	-	-	-	1	-	~	-	-
	115-A120)	F 5	-	-	-	-	2	~	-	-	-	-	2	1	-	-	-
SKIN AND	DISEASES OF THE MUSCULOSKELETAL SYSTEM.																
A 121 SKIN INFECT		M 2 F 3 T 5	- - -	- - -	- - -	- - -	- - -	1 1 2	- -	- - -	-	- 2 2	1 1	-	-	-	-
A 122 ARTHRITIS A		M 10 F 8 T 18	-	2 1 3	1 1 2	- - -		3 3 6	- - -	1 1	_	-	3 3 6	-	-	-	- - -
A 123 RHEUMATISM		M - F 2 T 2	-	-	-	-	-	- 2 2	-	-	-	-	-	-	-	-	-
A 124 OSTEOMYELIT		M 1 F – T 1	-	- - -	-	- - -	-	-	-	- -	_	-	1 - 1	-	-	Ē	-
A 125 ANKYLOSIS A DEFORMITIE			-	-	-	-	-	-	-	- -	-	-	- -	-	-	_	-
A 126 OTHER	1	7 F 8 T 15	-	- 1 1	-	-		4 3 7	-	- 1 1	-	-	3 1 4	- 1	-	=	- 1
TOTAL (A1			=	2 2 4	1 1 2	-	-	8 9 17	=	1 1 2	_	- 2 2	8 4 12	- 1	-	-	1 - 1 1
XIV. CONGE MALFORMAT	NITAL							- 1		-		-		•			ı
	A AND MENINGOCELE.																
A WITHOUT HY	DROCEPHALUS F	-	-	1 - 1	1	-	-	-	-		_	-	1 -	-	_	-	-
B WITH HYDRO	CEPHALUS I	2	- - -	-	1 - 1	-	-	- 2 2	- -	_ 	-	-	-	-	-	-	1 -
TOTAL (A127	) A	2	-	1 - 1	2 - 2	-	-	2 2	-	-	-	-	1 - 1	-		-	1 -
A 128 CIRCULATORY	SYSTEM F	34	- 1 1	3 - 3	1 - 1	1 - 1	1 - 1	14 11 25	3 1 4	2 1 3	- 1 1	4 - 4	11 14 25	1 2 3	3 - 3	1 1 2	4 2 6
A 129 OTHER	h	25	1 - 1	2 1 3	1 1	-	- 2 2	16 9 25	- 5 5	1 1 2	_	2 2 4	6 3 9	  -  1	1 1 2	1 - 1	2 1 3
TOTAL (A1	27-A129) A F	61	1 1 2	6 1 7	4 - 4	1 - 1	1 2 3	30 22 52	11 6 9	3 2	- 1 1	å 2	18 17 35	2 2 4	4 1 5	1 1	7 3 10
	ES OF EARLY ANCY.																
	Y	20	-	-	-	- 1 1	2 - 2	7 4 11	2 4 6	- 1 1		1 2 3	iii 6	1 2 3	1 -	-	  - 
A 131 POSTNATAL A:	SPHYXIA AND M	44	3 - 3	1 3 4	3 1 4	- - -	2 - 2	6 10 16	-	4 1 5	- II 1	1 1 2	15 10 25	2 2 4	2 1 3	2 - 2	3 2 5
A 132 INFECTIONS (	OF NEWBORN M F T	7 3		- 1 1	-	-	-	1 1 2	-	=		1 -	3 1 4	1 - 1	-	1 - 1	-
A 133 ERYTHROBLAS	TOSIS M F T	5 4	=	- 1	-	-	-	1 - 1	-	-		- 1 1	3 2 5	-	-	1 - 1	-
A 134 OTHER DEFINE	ED M F T	2 6	-	1 - 1	-	-	-	-	_ 1 1	- 1 1	-	-	1 2 3	- - -	- - -	1 1	- 1 1

TABLE 4

CAUSE OF DEATH BY SE	X FOR	R CENSUS	DIVIS	IONS	(INCLU	DING	CITIES,	IWOT	NS AND	VILL	AGES)	IN AL	BERTA	, 1967		
ANGE OF OCATIO		Census Div. 1	Census Div. 2	Census Div. 3	Census Div. 4	Census Div. 5	Census Div. 6	Census Div. 7	Census Div. 8	Census Div. 9	Census Div. 10	Census Div. 11	Census Div. 12	Census Div. 13	Census Div. 14	Census Div. 15
LIST A CAUSE OF DEATH NO. INTERMEDIATE LIST A (SEVENTH REVISION)	i	Censi	Cen	Cen	Cen	Cen	Cer	Cer	Cei	Š	Ce	Cer	Š	Š	قّ	ë
A 135 ILL-DEFINED	F 1	27 1 01 1 28 2	7 5 12	3 - 3	1 2 3	1 1 2	49 32 81	1 1 2	7 8 15	5 3 8	2 3 5	23 26 49	9 7 16	4 4 8	3 2 5	11 6 17
TOTAL (A130-A135) XVI. SYMPTOMS, SENILITY AND ILL-DEFINED CONDITIONS.	F 1	08 4 66 1 74 5	9 10 19	ñ 1 7	1 3 4	5 1 6	64 47 111	3 6 9	11 11 22	5 4 9	5 7 12	53 47 100	13 11 24	7 5 12	7 3 10	15 11 24
A 136 SENILITY WITHOUT PSYCHOSIS	F.	18 – 21 – 39 –		- 1 1	- - -	- 2 2	2 3 5	- 1 1	- 3 3	1 - 1	2 1 3	10 9 19	1 - 1	- 1 1	-	2 - 2
A 137 ILL-DEFINED AND UNKNOWN	F	66 1 72 - 38 1	1 2 3	- 1 1	-	4 1 5	135 55 190	-	1 1 2	1 - 1	9 7 16	7 3 10	1 - 1	2 2 4	-	4 - 4
TOTAL (A136, A137) XVII. ACCIDENTS, POISONINGS	F	84 1 93 -	1 2 3	- 2 2	=	4 3 7	137 58 195	- 1 1	1 4 5	2 - 2	11 III 19	17 12 29	2 - 2	2 3 5	-	6
AND VIOLENCE.  EXVII. EXTERNAL CAUSE.																
AE 138 MOTOR VEHICLE ACCIDENTS. A TRAFFIC (810-825)	F 1	17 4 02 4 19 8	14 5 19	11 5 16	4 - 4	13 1 14	42 23 65	8 3 11	23 6 29	3 2 5	25 5 30	83 32 115	16 1 17	16 2 18	14 1 15	41 12 53
B NON-TRAFFIC	F	11 1 3 - 14 1	- -	1 - 1	- - -	-	3 - 3	1 1 2	=	-	1 1 2	3 1 4	-	Ī	-	1 - 1
TOTAL (AE138)	F 1	28 5 05 4 33 9	14 5 19	12 5 17	4 - 4	13 1 14	45 23 68	9 4 13	23 6 29	3 2 5	26 6 32	86 33 119	16 1 17	16 2 18	14 1 15	42 12 54
A DROWNINGS INVOLVING SMALL BOATS (850)	M F T	3 - 2 - 5 -	=======================================	-	- - -	- - -	-	-	- 1 1	-	- -	2 - 2	1 1 2	-	-	-
B DROWNINGS INVOLVING OTHER WATERCRAFT (851)	M F T	<u> </u>	-	- - -	-	- - -	-	=	-	-	- - -	-	-	Ē	-	-
C OTHER TRANSPORT	F	24 1 1 1 25 2	2 _ 2	-	1 1	2 - 2	7 - 7	-	- - -	-	-	5 - 5	3 - 3	2 - 2	1 - 1	-
TOTAL (AE139)	F	27 1 3 1 30 2	2 - 2	- - -	1 1	2 - 2	7 - 7	-	- 1 1	- - -	-	7 - 7	4 1 5	2 - 2	1 1	-
AE 140 ACCIDENTAL POISONING	F	35 2 7 <del>-</del> 42 2	2 - 2	-	- - -	2 - 2	10 1	1 - 1	1 - 1	- - -	- - -	12 6 18	- - -	1 - 1	2 - 2	2 - 2
AE 141 ACCIDENTAL FALLS	F	71 4 61 1 32 5	2 6 8	1 2 3	3 - 3	- 2 2	20 19 39	5 - 5	2 1 3	2 1 3	2 10 12	25 14 39	4 1 5		-	1 4 5
AE 142 ACCIDENT CAUSED BY MACHINERY	F	20 - 1 - 21 -	1 - 1	3 - 3	=	2 - 2	5 - 5	1 + 1	-	-	1 - 1	6  6	-	1 1	-	1 1
AE 143 ACCIDENT CAUSED BY FIRE AND EXPLOSION	F	36 1 18 2 54 3	-	1 1	-	- -	2 1 3	1 1 2	2 1 3	3 - 3	4 - 4	12 2 14	4 4 8	2 2 4	-	4 5 9
AE 144 OTHER ACCIDENTAL BURNS	M F T	2 - 1 - 3 -	-		-	-	-	-	-	-	1 - 1	1 1 2	-	-	-	-
AE 145 ACCIDENT CAUSED BY FIREARM	M F T	14 1  14 1	1 1	1 - 1	-	-	1 1	2 - 2	2 - 2	-	-	3 - 3	2 - 2	-	-	1 1
AE 146 ACCIDENTAL DROWNING	M F T	48 2 9 <del>-</del> 57 2	6 1 7	1 - 1	- 1 1	2 - 2	9 . <del>-</del> 9	2 1 3	- 1 1	-	2 - 2	8 3 11	5 1 6	3 - 3	2 - 2	6 1 7
AE 147 ALL OTHER ACCIDENTAL CAUSES	M F T	48 2 21 1 69 3	3 - 3	- 1 1	-	2 - 2	12 4 16	1 - 1	4 1 5	1 1	-	15 4 19	- 2 2	3 - 3	3 - 3	2 8 10
TOTAL (AE138-AE147)	F 2	29 18 26 9 155 27	31 12 43	19 8 2 <b>7</b>	1	23 3 26	111 48 159	22 6 28	34 11 45	9 3 12	36 16 52	175 63 238	35 10 45	28 4 32	22 1 23	58 31 89
AE 148 SUICIDE	M 1	.10 2 27 1 .37 3	8 2 10	1 1		5 1 6	28 9 37	4 - 4	3 - 3	3 1 4	5 - 5	26 11 37	5 - 5	8 1 9	4 - 4	9 - 9
AE 149 HOMICIDE	M F T	23 1 14 - 37 1	$\frac{1}{1}$	- 1 1	-	Ē	6 6 12	-	2 2 4	1 1	1 1	1 4 5	1 1 2	1 1	1 1	7 - 7

TABLE 4 CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA, 1967  $\infty$ Div Div. Div. Div. Div. Div. Di√. Di∨. Di∨. Di∨. Div. Di∨. Div. Di√. Census Cansus Census Census LIST A CAUSE OF DEATH otal INTERMEDIATE LIST (SEVENTH REVISION) NO. AE 150 WAR INJURIES ..... TOTAL (AE138-AE150). .... H 10 32 NXVII. NATURE OF INJURY. AN 138 FRACTURE OF SKULL ...... M AN 139 FRACTURE OF SPINE AND TRUNK M AN 140 FRACTURE OF LIMBS ..... AN 141 DISLOCATION WITHOUT ..... M FRACTURE AN 142 SPRAINS AND STRAINS ..... H AN 143 OTHER HEAD INJURY ...... × 154 AN 144 INTERNAL INJURY ...... M AN 145 OPEN WOUNDS ...... M AN 146 SUPERFICIAL INJURY OR ..... M CONTUSION AN 147 FOREIGN BODY THROUGH ..... M DRIFTCE AN 148 BURNS ..... M AN 149 POISONINGS ..... 

58

52

501

AN 150 OTHER ..... M

TOTAL (AN138-AN150). .... M

ALL CAUSES. .....

TABLE 5

CAUSE OF DEATH BY SEX, RURAL AND URBAN AND FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1967 CAUSE OF DEATH LIST A Prairie INTERMEDIATE LIST NO. (SEVENTH REVISION) Albert Deer I. INFECTIVE AND PARASITIC Camrose Calgary Grande DISEASES. 1,000 5,000 Red RURAL TO AND St. TUBERCULOSIS (A1-A5). TOTAL TOTAL 4,999 OVER 1 RESPIRATORY. 11 ACTIVE ..... M 22 11 14 28 14 INACTIVE (002.2, 008.2) .. M 1 12 23 11 TOTAL (A1). ..... M 31 16 15 10 2 MENINGES AND CENTRAL ..... M NERVOUS SYSTEM 3 INTESTINE, PERITONEUM AND MESENTERY 4 BONE AND JOINT ..... M 5 OTHER FORMS ..... M 1 TOTAL (A1-A5). ..... M 12 12 4 7 1 33 17 16 10 SYPHILIS (A6-A10). 6 CONGENITAL ..... M 7 EARLY ..... M 8 TABES DORSALIS ..... M 9 GENERAL PARESIS ..... M A 10 OTHERS ..... M TOTAL (A6-A10). ..... M 6 6 11 GONOCOCCAL INFECTION ..... M A 12 TYPHOID ..... M 13 PARATYPHOID AND OTHER ..... M SALMONELLA 14 CHOLERA ..... M A 15 BRUCELLOSIS ..... M 16 DYSENTERY .....

TABLE 5

LIST A	CAUSE OF DEATH							•	ton	Prairie	ф 90	ne Hat	<b>a</b>	t	iwin
NO. IN	TERMEDIATE LIST A SEVENTH REVISION)						Calgary	Camrose	Edmonton	Grande	Lethbrid		Red Deer	St. Albert	Wetaskiwin
A 17 SCARLET	FEVER	M F T	-	-	_	-	-	0	-		-	-	-	-	
A 18 STREPTO	COCCAL SORE THROAT	H F T	-	-	=	=	=		=	=	_	=	-	-	-
A 19 ERYSIPE	LAS	M F T	-	-	-	-	-	-	-	-	-	-	-	-	-
A 20 SEPTICA	EMIA AND PYAEMIA	M F T	2 2 4	1 1 2	-	1 1 2	1 2	-	-	-	-	-	-	-	-
A 21 DIPHTHE	RIA	M F T	-	-	-	-	-	- -	-	-	- -	-	-	-	-
A 22 WHOOPIN	G COUGH	M F T	- 3 3	- 2 2	1 1	-	-	-	-	-	-	-	- - -	- -	-
A 23 MENINGO	COCCAL INFECTIONS	M F T	1 1 2	1 1 2	-	-	-	-	-	-	-	-	- - -	-	-
A 24 PLAGUE	• • • • • • • • • • • • • • • • • • • •	M F T	-	-	-	-	-	-	-	-	-	-	-	-	-
A 25 LEPROSY		M F T	-	-	-	-	-	-	-	-	-	-	-	-	-
A 26 TETANUS		M F T	-	-	-	-	-	-	-	-	-	- - -	-	-	-
ā 27 ANTHRAX		M F T	-	-	-	-	-	-	-	-	-		-	-	-
A 28 ACUTE P	OLIOMYELITIS	M F T	-	-	-	-	-	-	-	-	-	-	-	-	-
A 29 ACUTE E	NCEPHALITIS	M F T	4 2 6	1 1 2	$\frac{1}{1}$	2 1 3	1 1 2	-	1 - 1	-	-	-	-	-	-
A 30 LATE EF MYELIT	FECTS OF POLIO IS AND ENCEPHALITIS	M F T	-	-	-	-	-	-	-	=	-	-	-	-	-
A 31 SMALLPO	X	M F T	-	-	-	-	-	-	-	-	-	-	-	-	-
# 32 MEASLES		M F T	1 5 6	1 2 3	- 1 1	- 2 2	- 1 1	-	-	-	-	- -	- 1 1	-	-
A 33 YELLOW	FEVER	H F T	-	-	<u>-</u>	-	- -	-	-	-	-	-	-	-	-
A 34 INFECTI	OUS HEPATITIS	H F T	2 2 4	- 1 1	- -	2 1 3	-	-	2 1 3	-	-	-	-	-	-
A 35 RABIES	•••••••	M F T	-	-	-	-	-	-	-	-	-	-	-	-	-
	AND OTHER RICKETT-	M F T	-	-	=	-	-	-	-	-	=	-	- -	-	-
A 37 MALARIA		F T	=	-	-	-	-	-	-	-	-		- '	-	-
■ 38 SCHISTO	SOMIASIS	M F T	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 5

CAUSE OF DEATH BY SEX, RURAL AND URBAN AND FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1967

								0	ton	Prairie	esep	ne Hat	ier	ŧ	iwin
	ST A	CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)	TOTA	RURAL L TOTAL	TO	5,000 AND OVER	Calgan	Camrose	Edmonton	Grande	Lethbridge	Medicine	Red Deer	St. Albert	Wetaskiwin
A	39	HYDATID DISEASE	M F		_	_	_	-	-	-	-	-	-	-	
А	40	FILARIASIS	M F T	  	- - -	- - -	- - -	-	-	-	- - -	-	-	-	-
Α	41	ANKYLOSTOMIASIS	M F T	= =	- - -	- - -	-	-	-	-	-	-	-	-	-
A	42	OTHER DISEASES DUE TO HELMINTHS	H F T	- - -	- - -	-	-	-	-	-	-	-	-	- - -	-
А	43	OTHER	F	2 - 5 3 7 3		2 2 4	- 1 1	-	1 1 2	-	1 - 1	-	-	-	-
		TOTAL (A1-A43)	M 4 E 2 T 7	9 16	2	23 11 34	9 4 13	=	12 5 17	-	2 - 2	i 1	- 1 1	-	-
		II. NEOPLASMS.													
		MALIGNANT NEOPLASMS (A44-A59	9).												
	44	BUCCAL CAVITY AND PHARYNX	M 2 F T 2	7 1	2 1 3	15 5 20	5 1 6	-	10 3 13	-	- 1 1	-	- - -	- - -	-
A	45	DESOPHAGUS	M 2 F T 3	8 2	4 - 4	10 6 16	3 2 5	- 1 1	6 3 9	1 - 1	- - -	-	-	-	=
A	46	STOMACH	M 11 F 5 T 17	5 22	10 6 16	58 27 85	14 13 27	6 - 6	28 8 36	1 2 3	5 1 6	3 2 5	1 - 1	-	1 1
٨	47	INTESTINE, EXCEPT RECTUM	M 9 F 9 T 19	6 20	9 11 20	47 65 112	16 24 40	2 1 3	19 25 44	2 2 4	2 5 7	3 5 8	2 2 4	1 - 1	1 1
A	48	RECTUM	H 5 F 3 T 8	1 9	7 3 10	31 19 50	10 4 14	- 1 1	16 7 23	1 1 2	1 1 2	3 3 6	- 2 2	-	-
A	49	LARYNX	M 1 F T 1		7 - 7	5 - 5	3 - 3	-	1 - 1	-	- - -	1 1	-	-	-
A	50	TRACHEA, BRONCHUS, AND LUNG NOT SPECIFIED AS SECONDARY		2 12	18 6 24	121 24 145	52 7 59	1 - 1	53 8 61	1 - 1	4 3 7	3 4 7	4 2 6	2 - 2	1 - 1
A	51	BREAST	M F 15 T 15		2? 22	85 85	- 37 37	- 2 2	- 35 35	1 1	- 4 4	- 4 4	-	- 1 1	1 1
A	52	CERVIX UTERI	F 3	1 5	4	22	13	-	8	-	1	-	-	-	-
A	53	UTERUS, OTHER PARTS	F 1	5	, 1	12	4	2	5	-	-	1	-	-	-
A	54	PROSTATE	M 9	9 24	18	57	20	1	23	2	4	4	2	-	1
A	55	SKIN	M 1-	5 3	-	6 3 9	1 2 3	- 1 1	4 - 4	1 1	-	-	-	-	-
Α	56	BONE AND CONNECTIVE TISSUE	M 1: F 1: T 2:	2	2 - ?	7 8 15	3 4 7	- -	2 2 4	1 - 1	1 - 1	-	- 1 1	- 1 1	-
A	57	OTHER AND UNSPECIFIED SITES.													
			F 76	13	10 15 25	52 42 94	18 15 33	3 - 3	19 18 37	2 - 2	3 2 5	3 6 9	4 1 5	-	-
	В		F -	3 -	=	3 - 3	-	1 1	2 - 2	-	-	-	-	-	-

TABLE 5

CAUSE OF DEATH BY SEX, RURAL AND URBAN AND FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1967

	D	CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)  URINARY ORGANS (180, 181)  BRAIN AND NERVOUS SYSTEM (193)  OTHER	M F T M F		RURAL TOTAL 27 10 37 14 2 16	1,000 TO 4,999 7 3 10 5 - 5 4 12	5,000 AND OVER 34 14 48 14 17 31 22 65 87	9 6 15 6 5 11 7 7 25 32	Camrose	20 55 8 10 18 12 28 40	1	S S I I Lethbridg	Medicine Hat	1 1 1 2 2 3	St. Albert	ı ı ı . Wetaskiwin
A	58	TOTAL (A57)	M F T	236 213 449 56	85 45 130	26 30 56	125 138 263	40 51 91	6 2 8	61 61 122	3 1 4	3 5 8	5 12 17	5 4 9	1 2 3	1 -
A	59	LYMPHATIC AND HAEMATOPOIETIC SYSTEM.		31 87	7 28		21 51	12 25	-	3 12	1 2	2 6	3 6	-	1	-
	В	OTHER	F T	19 7 26 44 23	7 1 8 12 4	3 3 3	12 3 15 29 16	6 6 15 7	1 1 - 1	5 2 7 9 5	-	- - - 2 1	1 1	1 - 1	1	- - 1
		TOTAL (A59)	M F T	67 63 30 93	16 19 5 24	6 3 6 9	41 19 60	22 21 7 28	2 2	14 7 21	-	3 2 1 3	2 1 1 2	1 1 1 2	1 - 1	1 7
	60	TOTAL (A44-A59)	F T 1	1006 733 1739	342 186 528	111 93 204	553 454 1007	201 181 382	16 12 28	246 175 421	14 8 22	26 24 50	26 35 61	15 12 27	5 4 9	4 3 7
			F	9	1	1	7	3	_	2	_	1	-	1	-	
		TOTAL (A44-A60)	H I	18 1015 742 1757	346 187 533	113 94 207	556 461 1017	3 201 184 385	16 12 28	248 177 425	14 8 22	26 25 51	26 35 61	2 16 13 29	5 4 9	- 4 3 7
		III, IV. ALLERGIC, ENDOCRII METABOLIC AND BLOOD DISEASI	M 1 F T 1	18 1015 742	346 187	113 94	10 556 461	3 201 184	16	4 248 177	8	26 25	35	16 13	4	3
A		III, IV. ALLERGIC, ENDOCRII METABOLIC AND BLOOD DISEASI	M I I I I I I I I I I I I I I I I I I I	18 1015 742 1757	5 346 187 533	3 113 94 207	10 556 461 1017	3 201 184	16 12 28	4 248 177	8	26 25	35	16 13	4	3
	62	III, IV. ALLERGIC, ENDOCRI METABOLIC AND BLOOD DISEASI NON-TOXIC GOITRE	M 1 F T 1 Set  18 1015 742 1757	5 346 187 533	3 113 94 207	10 556 461 1017	3 201 184	16 12 28	4 248 177 425	22	26 25 51	35	16 13 29	4	3	
A	63	III, IV. ALLERGIC, ENDOCRIMETABOLIC AND BLOOD DISEASI  NON-TOXIC GOITRE	T M 1 1 1 1 NE.  MFT 1 MFT MFT MFT MFT MFT MFT MFT MFT MFT MFT	18 1015 742 1757	5 346 187 533 	3 113 94 207	10 556 461 1017	3 201 184 385	16 12 28	4 248 177 425	8 22	26 25 51	35 61	16 13 29	- - - - - 2 1	3 7
A	62 63 64	III, IV. ALLERGIC, ENDOCRIMETABOLIC AND BLOOD DISEASING NON-TOXIC GOITRE	T M 1 1 1 NES. MET MET MET MET MET MET MET MET MET MET	18 1015 742 1757 	5 346 187 533 	3 113 94 207	10 556 461 1017 	3 201 184 385	16 12 28	4 248 177 425	8 22	26 25 51	35 61	16 13 29	- - - - - 2 1	3 7
A A	62 63 64	III, IV. ALLERGIC, ENDOCRIMETABOLIC AND BLOOD DISEASE  NON-TOXIC GOITRE	T M 1 1 1 NES. MET MET MET MET MET MET	18 1015 742 1757 	5 346 187 533 	3 113 94 207	10 556 461 1017 	3 201 184 385	16 12 28 	4 248 177 425	8 22	26 25 51	35 61	16 13 29	4 9	3 7
A A	62 63 64	III, IV. ALLERGIC, ENDOCRIMETABOLIC AND BLOOD DISEASINON-TOXIC GOITRE	T MET NES. MET MET MET MET MET MET MET	18 1015 742 1757 	5 346 187 533 	3 113 94 207	10 556 461 1017 	3 201 184 385 	16 12 28 	4 248 177 425	8 22	26 25 51 	35 61	16 13 29	2 1 3 1 1 2 2 2	3 7

TABLE 5

CAUSE OF DEATH BY SEX, RURAL AND URBAN AND FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1967

										_	Prairie	Φ	Hat			ri
LIST		CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)		TOTAL	RURAL TOTAL		5,000 AND OVER	Calgary	Camrose	Edmonton	Grande F	Lethbridge	Medicine	Red Dear	St. Albert	Wetaskiwin
A	68 F	PSYCHONEUROTIC AND PERSONA- LITY DISORDERS	M F T	20 3 23	5 2 7	2 - 2	13 1 14	5 1 6	-	6 - 6	-	-	-	=	1 1	1 1
A	69 N	MENTAL DEFICIENCY	M F T	-	-	- - -	-	-	-	-	-	-	-	-	-	-
		TOTAL (A67-A69)	M F T	24 6 30	7 2 9	2 1 3	15 3 18	6 1 7	=	7 2 9	=	-	-	:	1 1	1 - 1
		VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS.	S													
Ā	70 (	CEREBROVASCULAR LESIONS	M F T	549 470 1019	154 116 270	90 70 160	305 284 589	132 119 251	12 14 26	89 94 183	6 3 9	20 18 38	21 21 42	18 11 29	1 1 2	6 3 9
•	71 /	NON-MENINGOCOCCAL MENINGITIS	M F T	3 3 6	1 1 2	1 1 2	1 1 2	-	-	1 1 2	-	-	-	-	-	-
A	72	MULTIPLE SCLEROSIS	M F T	4 10 14	1 1 2	1 1 2	2 8 10	1 2 3	-	1 4 5	-	- 2 2	-	=	-	=
Α	73 (	EPILEPSY	M F T	11 8 19	3 4 7	-	8 4 12	5 1 6	-	3 2 5	-	- -	-	- 1 1	-	-
A	74 1	INFLAMMATORY DISEASES OF THE EYE	M F T	-	- -	-	-	-	-	-	-	-	-	-	=	-
A	75 (	CATARACT	M F T	- - -	-	-	-	-	-	- - -	-	- - -	-	-	-	-
A	76 (	GLAUCOMA	M F T	-	-	-	-	-	-	-	-	- -	-	=	-	-
٨	77 (	OTITIS MEDIA AND MASTOIDITIS	M F T	3 1 4	-	-	3 1 4	2 - 2	-	- 1 1	=	$\frac{1}{1}$	-	-	=	=
A	78 (	OTHER	M F T	30 33 63	5 7 12	4 8 12	21 18 39	6 10 16	-	9 6 15	$\frac{1}{1}$	2 - 2	1 1	2 1 3	1 1	-
		TOTAL (A70-A78)	M F T	600 525 1125	164 129 293	96 80 176	340 316 656	146 132 278	12 14 26	103 108 211	7 3 10	23 20 43	21 22 43	20 13 33	2 1 3	6 3 9
		VII. DISEASES OF THE CIRCULATORY SYSTEM. HEART DISEASE (A79-A83).														
A		RHEUMATIC FEVER	M F	-	-	-	-	-	_		-	-	=	- -	-	-
	80 (	CHRONIC RHEUMATIC	T	- 26	10	- 3	13	- 6	-	7	-	-	-	-	-	-
			F	54 80		5 8	36 49	17 23	1	14	-	1	1	2	-	-
	81 /	ARTERIOSCLEROTIC AND DEGENERATIVE	M F T	1792 871 2663	586 229 815	263 154 417	943 488 1431	267 163 430	30 24 54	453 194 647	17 7 24	79 35 114	53 38 91	26 10 36	10 12 22	8 5 13
A	H2 (	DTHER	M F T	92 72 164	21	23 16 39	44 35 79	23 15 38	- -	18 17 35	-	1 3 4	-	2	-	-
A	83	HYPERTEMSIVE	F	33 37 70	5	4 7 11	18 25 43	6 8 14	-	11 15 26	- 1 1	1 1	-	-	=	1 - 1
		TOTAL (A79-A83)	M F T	1943 1034 2977		293 182 475	1018 584 1602	302 203 505	30 25 55	489 240 729	17 8 25	80 40 120	53 39 92	28 12 40	10 12 22	9 5 14
Α	84	HYPERTENSION	M F T	26 20 46	5	4 3 7	17 12 29	8 8 16	=	7 3 10	=	1 1 2	1 1	-	-	-

TABLE 5

										Prairie		Hat		,,, 250,	
LIST NO.	CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)			RURAL TOTAL	1,000 TO 4,999	5,000 AND OVER	Calgary	Camrose	Edmonton	Grande Pi	Lethbridge	Medicine	ed Deer	St. Albert	Wetaskiwin
A 85	ARTERIAL DISEASES	M F T	149 112 261	39 32 71	23 17 40	87 63 150	42 25 67	4 1 5	29 28 57	2 2 4	7 2 9	2 4 6	1 1 2	- - -	
A 86	OTHER	M F T	40 26 66	13 # 21	2 2 4	25 16 41	6 5 11	1 - 1	12 9 21	2 - 2	1 1 2	3 1 4	-	-	-
	TOTAL (A79-A86)	F	2158 1192 3350	689 313 1002	322 204 526	1147 675 1822	358 241 599	35 26 61	537 280 817	21 10 31	89 44 133	59 44 103	29 13 42	10 12 22	9 5 14
	VIII. DISEASES OF THE RESPIRATORY SYSTEM.														
A 87	ACUTE UPPER RESPIRATORY	M F T	6 3 9	2 1 3	-	4 2 6	1 1 2	-	3 1 4	-	- - -	-	-	-	-
A 88	INFLUENZA	M F T	12	2 1 3	- 1 1	6 2 8	1 2 3	4	-	-	-	1 1	-	-	
	PNEUMONIA (A89-A91).														
A 89	LOBAR	M F T	15 12 27	3 3 6	3 3 6	9 6 15	3 4 7	-	5 2 7	-	1 - I	-	-	-	-
A 90	BRONCHO	M F T	96 75 171	27 18 45	18 10 28	51 47 98	14 12 26	14 6 20	16 25 41	-	2 1 3	2 2 4	1 - 1	2 1 3	-
A 91	ATYPICAL, OTHER,	M F T	59 42 101	14 11 25	5 7 12	40 24 64	17 9 26	1 - 1	18 7 25	-	5 5	-	2 5	-	1 1 2
	TOTAL (A89-A91)	H F T	170 129 299	44 32 76	26 20 46	100 77 177	34 25 59	15 6 21	39 34 73	-	3 6 9	2 2 4	4 2 6	2 11 3	1 1 2
	BRONCHITIS (A92, A93).														
A 92	ACUTE	M F T	1 3	1	1	1 1	=	-	1 1	-	-	-	-	-	- - -
A 93	CHRONIC AND UNQUALIFIED	M F T	61 13 74	22 6 28	10 1 11	29 6 35	14 3 17	-	12 2 14	1	2 - 2	-	1 1	-	-
	TOTAL (A92, A93)	M F T	63 14 77	23 6 29	11 1 12	29 7 36	14 3 17	-	12 3 15	1	2 - 2	-	1 1	-	Ē
A 94	TONSILS AND ADENOIDS	F T	2 2 4	2 1 3	1 1	-	=	~	-	-	-	-	-	-	
A 95	EMPYEMA AND LUNG ABSCESS	F T	2 - 2	1 - 1	-	1 - 1	1 1	-	-	-	-	-	-	-	-
A 96	PLEURISY	M F T	2 3 5	2 1 3	1 1	1 1	1 1	- - -	-	-	-	-	=	-	-
A 97	OTHER	M F T	103 37 140	22 6 28	15 5 20	66 26 92	22 11 33	1 - I	30 11 41	2 - 2	6 - 6	3 11 4	2	1 1	1
		F T	356 192 548	98 41 146	52 29 81	206 115 321	73 43 116	20 6 26	84 49 133	3	11 6 17	3 9	5 5 10	3 1 4	1 2 3
	IX. DISEASES OF THE DIGESTIVE SYSTEM.														
A 98		M F T	-	-	-	-	-	-	-	-	-	-	-	-	-
A 99	ULCER OF THE STOMACH	M F T	15 9 24	5 3 8	2 3 5	8 3 11	3 3 6	-	3 - 3	-	1 - 1	-	1 - 1	-	-
A 100		M F T	21 11 32	4 3 7	6 - 6	11 8 19	3 2 5	- - -	6 4 10	-	2 1 3	- - -	- 1 1	-	-

TABLE 5

CAUSE OF DEATH BY SE	Y RURAL A	ND URBAN	AND FOR	URBAN	PLACES	OF 5,000	POPULATION	AND C	OVER IN	I ALBERTA,	1967

										Prairie	0	Hat			c
							خ	ose	nton		ridge		Deer	Albert	skiwi
LIST A	CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)	101		RURAL TOTAL	1,000 TO 4,999	5,000 AND OVER	Calgary	Camrose	Edmonton	Grande	Lethbridge	Medicine	Red [	St. A	Wetaskiwin
<b>a</b> 101 0	GASTRITIS AND DUDDENITIS	M F T	1 - 1	-	1 - 1	-	-	-	Ξ	=	=	=	=	-	-
<b>1</b> 02 A	APPENDICITIS	M F T	7 - 7	2 - 2	<u></u>	5 - 5	3 - 3	-	1 - 1	Ξ	Ξ	=	$\frac{1}{1}$	-	=
A 103 1	INTESTINAL OBSTRUCTION AND HERNIA	M F T	36 23 59	14 4 18	3 7 10	19 12 31	12 3 15	-	4 4 8	-	2 2 4	- 1 1	1 2 3	-	-
A 104	GASTRO-ENTERITIS AND COLITIS	M F T	20 36 56	11 10 21	2 7 9	7 19 26	2 6 8	- 3 3	3 7 10	2 - 2	- 1 1	- 2 2	- - -	-	=
A 105 (	CIRRHOSIS OF LIVER	M F T	48 29 77	8 3 11	4 4 8	36 22 58	18 8 26	3 1 4	10 12 22	2 - 2	1 - 1	1 - 1	=	1 - 1	- 1 1
A 106 (	CHOLELITHIASIS AND CHOLECY- STITIS	M F T	17 27 44	6 8 14	2 10 12	9 9 18	3 2 5	1 - 1	4 5 9	-	- 1 1	1 1	1 - 1	-	=
A 107	OTHER		43 20 63	13 6 19	13 4 17	17 10 27	11 7 18	- 1 1	4 1 5	=	1 1 2	-	1 -	-	-
	TOTAL (A98-A107)	M 2	208	37 100	33 35	112	35 31 86	4 5 9	35 33	4 -	7 6 13	1 4 5	5 3 8	1 -	1
	X. DISEASES OF THE GENITO- URINARY SYSTEM.	•	,03	100	••	1,7,7	30	,	-	•	15				•
A 108	ACUTE NEPHRITIS	M F T	2 - 2	-	1	1 - 1	-	=	1 1	-	-	=	-	-	-
A 109	CHRONIC AND OTHER NEPHRITIS	M F T	30 20 50	11 5 16	4 2 6	13	7 8 15	1 1	4 5 9	- - .,	2 - 2	1 1	-	-	=
A 110	INFECTIONS OF KIDNEY	M F T	22 19 41	10 4 14	1 3 4		3	-	3 4 7	- 2 2	- 1 1	2 1 3	1 1 2	-	=
A 111	CALCULI	M F T	2 4 6	- 1 1	-	2 3 5	~	-	2 2 4	-	- 1 1	-	-	-	-
A 112	HYPERPLASIA OF PROSTATE	М	27	8	5	14	9	1	1	-	2	1	-	_	-
A 113	BREAST	M F T	-	- - -	-	-	-	=	-	=	-	-	=	-	-
A 114	OTHER	M F T	6 11 17	2 1 3	1 1 2	9	6	-	3 2 5	-	-	- 1 1	-	-	-
	TOTAL (A108-A114)	F	84 54 143	31 11 42	6	37	17	-	13	- 2 2	4 2 6	4 2 6	1 1 2	=	-
	XI. COMPLICATIONS OF PREG- NANCY, CHILDBIRTH, AND PUERPERIUM.														
M 115	SEPSIS	F	-	_	-	_	-	_	-	-	-	-	-	-	-
A 116	TOXAEMIA	F	2	2	-	-	-	-	-	-	-	-	-	-	-
A 117	HAEMORRHAGE	F	2	1	-	1	-	-	1	-	-	-	-	-	-
A 118	ABORTION WITHOUT SEPSIS OR TOXAEMIA	F	-	-	-	-	-	-	-	-	-	-	-	-	-
A 119	ABORTION WITH SEPSIS	F	_	-	-	_	_	_	_	_	_	_	_	_	-
	OTHER		1	_	_	1	_	_	1	_	_	_	_	-	
	TOTAL (A115-A120)	F	5	3	-	2	-	-	2	-	**	-	-	-	-

TABLE 5

LIST A CAUSE OF DEATH NO. INTERMEDIATE LIST # (SEVENTH REVISION)		TOTAL	RURAL	1,000 TO 4,999	5,000 AND	ځ	se	nton	e Prairie	idge	ne Hat	eer	Albert	ciwin
XII, XIII. DISEASES OF THE SKIN AND MUSCULOSKELETAL SYSTEM.				4,777	OVER	Calgary	Camrose	Edmonton	Grande	Lethbridge	Medicine	Red De	St. Alb	Wetaskiwin
# 121 SKIN INFECTIONS	н	2	_	_	2	1	_	1		_		_		
	F T	3 5	2 2	1	_ 2	1	_	1	-	-	-	=	_	-
A 122 ARTHRITIS AND SPONDYLITIS	M F T	10	2 1 3	3 1 4	5 6 11	2 3 5	-	3 2 5	=	1	_	-	-	-
A 123 RHEUMATISM	H F T	- 2 2	-	-	- 2 2	- 2 2	-	-	-	1 - -	-	-	-	-
A 124 OSTEOMYELITIS		1 - 1	-	1 - 1		-	-	-	-	-	-	-	-	-
125 ANKYLOSIS AND ACQUIRED DEFORMITIES	H F T	-	-	=	-	-	-	-	-	-	=	-	-	-
A 126 OTHER	M F T	7 8 15	- II 1	1	7 6 13	4 3 7	-	3 1 4	- 1 1	-	-	- 1 1	-	-
TOTAL (A121-A126)	F T	20 21 41	2 4 6	3 7	14 14 28	7 ii 15	-	7 3 10	1	- 1 1	-	Î Î	=	-
XIV. CONGENITAL MALFORMATIONS.														
A 127 SPINA BIFIDA AND MENINGOCEL	Ε.													
■ WITHOUT HYDROCEPHALUS	H F T	3 - 3	-	2 - 2	1 - 1	-	-	1 -	=	-	-	-	Ī	-
B WITH HYDROCEPHALUS	M F T	2 2 4	-	2 - 2	- 2 2	- 2 2	-	-	Ξ	-	-	-	-	-
TOTAL (A127)		5 2 7	- - -	4 - 4	1 2 3	- 2 2	-	1 -	-	-	-	-	-	=
A 128 CIRCULATORY SYSTEM	M F T	49 34 83	16 5 21	6 5 11	27 24 51	12 9 21	1 1	1 10 13 23	1 - 1	2 - 2	- 1 1	- 1 1	1 - 1	-
A 129 OTHER	M F T	34 25 59	8 9 17	3 4 7	23 12 35	13 9 22	1 1	5 3 R	-	2 - 2	1 1	-	-	1 - 1
TOTAL (A127-A129)	H F T	88 61 149	24 14 38	13 9 22	51 11 89	25 20 45	2 - 2	16 16 32	1 - 1	4	1 1 2	1 1	1 1	1
XV. DISEASES OF EARLY INFANCY.														
A 130 BIRTH INJURY	M - F T	23 20 43	6 m 12	5 3 8	12 11 23	7 4 11	1 1	6 11	-	-	-	-	-	-
A 131 POSTNATAL ASPHYXIA AND ATELECTASIS	M F T	44 32 76	12 5 17	6 10	28 21 49	6 10 16	1 1	14 8 22	-	1 2 3	3 - 3	3 1 4	-	-
# 132 INFECTIONS OF NEWBORN	M F T	7 3 10	2 1 3	2 1 3	3 1 4	- 1 1	-	3 - 3	- - -	-	-	-	-	=
A 133 ERYTHROBLASTOSIS	M F T	5 4 9	1 1 2	1 1	3 3 6	1 1	=	2 2 4	- - -	- 1	-	-	-	-
# 134 OTHER DEFINED	M F T	2 M 8	- 2 2	1 2 3	1 2 3	-	=	11 2 3	-	-	-	-	=	-

TABLE 5

CAUSE OF DEATH BY SEX, RURAL AND URBAN AND FOR URBAN PLACES OF 5,000 POPULATION AND OVER IN ALBERTA, 1967

07.002 01	DEATH BY SEX, NOIME AND S								<u>e</u> ,					
							d)	5	Prairie	98	e Hat	eer	t	win
LIST A	CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)	TOTAL	RURAL TOTAL		5,000 AND OVER	Calgary	Camrose	Edmonton	Grande	Lethbridge	Medicine	Red De	St. Albert	Wetaskiwin
M 135	ILE-DET INCO	M 127 F 101 T 228	29	18 13 31	75 59 134	47 31 78	$\frac{1}{1}$	18 21 39	1 1	4 3 7	1 1 2	3 3 6	-	-
		M 208 F 166 T 374	44	31 25 56	122 97 219	61 107	2 1 3	43 39 82	1 - 1	5 & 11	4 1 5	6 4 10	-	-
	XVI. SYMPTOMS, SENILITY AND ILL-DEFINED CONDITIONS.	,												
A 136	SENILITY WITHOUT PSYCHOSIS	M 18 F 21 T 39	4	2 3 5	14 14 28	2 3 5	2 1 3	10 9 19	-	-	-	1 1	-	-
A 137	ILL-DEFINED AND UNKNOWN	H 166 F 72 T 238	6	2	144 64 208	131 55 186	5 5 10	2 7	-	1 2 3	1	-	-	1
	TOTAL (A136, A137)	M 184 F 93 T 277	10	5	158 78 236	133 58 191	7 6 13	15 11 26	-	1 2	1 1	1	=	1
	XVII. ACCIDENTS, POISONINGS													
	EXVII. EXTERNAL CAUSE.													
AE 138	MOTOR VEHICLE ACCIDENTS.													
A	TRAFFIC (810-825)	M 31 F 102 T 419	2 41	13	118 48 166	32 17 49	1 2 3	60 24 84	11	7 1 8	2 2 4	3 1 4	1 1	2 - 2
8	NON-TRAFFIC	M 1	3 2	-	4 1 5	2 - 2	-	2 1 3	-	-	-	-	-	=
	TOTAL (AE138)	M 32 F 10 T 43	5 43	13	49	34 17 51	1 2 3	62 25 87	11	7 1 8	2 2 4	3 1 4	1 1	2 - 2
AE 139	OTHER TRANSPORT ACCIDENTS.													
A	DROWNINGS INVOLVING SMALL BOATS (850)	F .	3 2 2 1 5 3	. 1		-	_	1 - 1	-	=	-	-	-	-
В	DROWNINGS INVOLVING OTHER WATERCRAFT (851)	M F T	 	-	-	-	-	-	-	-	-	-	-	-
С	OTHER TRANSPORT	M 2 F T 2	1 -	-	1	7 - 7	-	1 1	-	2 - 2	1 1	-	-	1 1
	TOTAL (AE139)	M 2 F T 3	3 1	1	1	7 - 7	-	2 - 2	-	2 - 2	1 1	-	-	1 1
AE 140	ACCIDENTAL POISONING		7 -		7	1	-	8 5 13	1 - 1	2 - 2	-	-	1 1	-
AE 141	ACCIDENTAL FALLS	M 7 F 6 T 13	1 14	+ 7	40	16		21 13 34	-	1 3 4	3 1 4	1 1	1 1	-
AE 142	ACCIDENT CAUSED BY MACHINERY	F 2		- 1		-	-	5 - 5	-	1 1	-	-	-	
AE 143	B ACCIDENT CAUSED BY FIRE AND EXPLOSION	F 1	6 16 8 14 4 30	4 -	- 4	1	=	9 1 10	-	-	1 1 2	1 1 2	=	1 1
AE 144	OTHER ACCIDENTAL BURNS	F	2 - 1 - 3 -	- 1  - 1	- 1	-	-	1 1 2	-	-	-	-	=	-
AE 145	5 ACCIDENT CAUSED BY FIREARM	F		7 2	-	-	-	2 - 2	-	-	-	1 - 1	-	1 - 1
AE 146	5 ACCIDENTAL DROWNING	F	8 29	5 1	. 3	_	-	3 3 6	-	11 - 3	1 1	-	=	

TABLE 5

						>	Se	ton	Prairie	idge	ne Hat	99	bert	tiwin
NO. INTERMEDIATE LIST A (SEVENTH REVISION)	Т	OTAL	RURAL TOTAL	1,000 TO 4,999	5,000 AND OVER	Calgary	Camrose	Edmonton	Grande	Lethbridge	Medicine	Red Do	St. Alb	Wetaskiwin
AE 147 ALL OTHER ACCIDENTAL CAUSES	H F T	48 21 69	16 10 26	7 3 10	25 8 33	9 4 13	-	13 2 15	1 1	2 - 2	- 1 1	1 1	-	-
TOTAL (AE138-AE147)	M F T	629 226 855	269 87 356	92 26 118	26 8 11 3 38 1	90 39 129	3 11	126 50 176	1 2 1 1 3	18 4 22	7 6 13	6 3 9	1 2 3	5 - 5
AE 148 SUICIDE	H F T	110 27 137	43 6 49	13 1 14	54 20 74	24 8 32	- - -	22 10 32	1 1	4 1 5	$\frac{1}{1}$	2 - 2	- - -	1 1
AE 149 HOMICIDE	M F T	23 14 37	11 3 14	2 - ?	10 11 21	6 6 12	-	1 4 5	1 1	-	$\frac{1}{1}$	1 1 2	- - -	-
AE 150 WAR INJURIES	III F T	-	-	-	-	-	- -	-	- - -	- - -	-	-	-	-
TOTAL (AE138-AE150)	M F T	762 267 1029	323 96 419	107 27 134	332 144 476	120 53 173	3 8 11	149 64 213	14 1 15	22 5 27	9 6 15	9 4 13	1 2 3	5 1 6
NXVII. NATURE OF INJURY.														
AN 138 FRACTURE OF SKULL	M F T	138 29 167	65 14 79	21 4 25	52 11 63	19 4 23	1 - 1	22 7 29	6 - 6	2 - 2	-	-	- - -	2 - 2
AN 139 FRACTURE OF SPINE AND TRUNK	M F T	35 17 52	15 5 20	7 4 11	13 8 21	4 3 7	- 3 3	8 2 10	- - -	1 1	-	-	-	-
AN 140 FRACTURE OF LIMBS	M F T	46 55 101	12 13 25	10 8 18	24 34 58	12 12 24	2 5 7	6 13 19	-	1 2 3	2 1 3	1 1	1 1	-
AN 141 DISLOCATION WITHOUT FRACTURE	M F T	-	=	-	=	-	-	-	-	-	-	-	-	-
AN 142 SPRAINS AND STRAINS	M F T	1 1	-	1 - 1	-	-	-	-	- - -	-	- - -	-	-	-
AN 143 OTHER HEAD INJURY	M F T	127 27 154	54 9 63	20 1 21	53 17 70	23 8 31		23 6 29	1 - 1	2 1 3	3 2 5	1 1	-	- - -
AN 144 INTERNAL INJURY	M F T	187 46 233	89 16 105	24 5 29	74 25 99	23 10 33	-	34 11 45	5 - 5	6 1 7	- 1 1	4 1 5	- 1 1	2 - 2
AN 145 OPEN WOUNDS	M F T	14 3 17	3 1 4	2 - ?	9 2 11	2 1 3	-	5 1 6	-	1 1	1	-	-	- - -
AN 146 SUPERFICIAL INJURY OR CONTUSION	M F T	- 2 2	-	-	2 2	- 2 2	-	=	-	=	-	-	=	-
AN 147 FOREIGN BODY THROUGH ORIFICE	M F T	16 4 20	7 2 9	1 1	9 1 10	1 1	-	7 - 7	-	-	1 1	1 - 1	-	-
AN 148 BURNS	M F T	35 17 52	14 12 26	5  5	16 5 21	2 1 3	-	11 3 14	1	-	1 1 2	-	-	1
AN 149 POISONINGS	M F T	72 33 105	20 III 28	9 2 11	43 23 66	18 6 24	-	16 14 30	1 1	4 - 4	1 1	3 1 4	- 1 1	- 1 1
AN 150 OTHER	M F T	91 34 125	44 16 60	8 2 10	39 16 55	16 6 22	-	17 7 24	1 1	5 1 6	1 1	1 1	-	-
TOTAL (AN138-AN150)	F	762 267 1029	323 98 419	107 27 134	332 144 476	120 53 173	3 III 11	149 64 213	14 1 15	22 5 27	6 15	9 4 13	1 2 3	5 1 6
ALL CAUSES	# F T	5895 3628 9523	1886 936 2822	815 542 1357	3194 2150 5344	1247 870 2117	106 79 185	1293 829 2122	65 26 91	201 123 324	133 121 254	95 62 157	26 22 48	28 18 46

### TABLE 6

DEATHS BY CAUSE AND SEX, BY AGE, ALBERTA, 1967

LIST ND.	A CAUSE OF DEATH		-7	7-27	28	TOTAL		AGE												AGE							
ND.	A CAUSE OF DEATH INTERMEDIATE LIST # (SEVENTH REVISION)  I- IMPECTIVE ### PARASITIC DISEASES.	TOTAL	-7 DAYS	DAYS	DAYS	-1	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44 4	5-49 5	0-54	55-59	60-64	65-69	70-74	75-79	80-84	85 N.S.
	TUBERCULOSIS (A1~A5).																										
	A ACTIVE	22 6 28	-	-	1	1 7	2	-	-	-	-	-	-	2	-	1	-	:	2	ī	-	4	ı -	4	2	4	4 - 2 - 6 -
	I TNACTIVE (002-2, 008-2) M	1 2	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		1	-	-	-	-	3	4	
	TOTAL (All)	23	-		1	1	-	-	-	-	-	-	-	-	-	-	-	i :	- 2		-	1 9	- 1	4	1 3	4	1 1
Δ .	PHENINGES AND CENTRAL M NERVOUS SYSTEM	31	-	-	1 -	1 -	-	-		-		-		-	-	i -	1 -	i -	2 -	1	-	5	1 -	4	4	4	4 - 2 - 6 -
	INTESTINE, PERITONEUM AND III MESENTERY	-	-	-	=	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-		=	-	-	-	
	BONE AND JOINT	-	2		-	-	-	-		-	-	=	-		-	-	=	-	-	2	-	-		=	-		1 1
	F T T T T T T T T T T T T T T T T T T T	-	-	- 1	-		-	- 1	-	-	-	-	-	-	1	-	ī	-	1	=	-	-	Ē	=	-	-	= =
	F T	24	-		-		Ξ.		=	-	-		-	Ē	-	-	-		-	-	i I	-	1	-	-	-	= =
	F	9	-	-	ī	1	=	-		=		-	-	-	-	1	1	1	2 - 2	1	1	1 5	1 1 2	4	3 1 4	4	2 - 6 -
A	SYPHILIS (A6-A10).  CONGENITAL	-	-	Ē		2	ĭ			-		-	-	-	-	1	Ξ	-	î	-	-	-	-	-		-	
Δ :	' EARLY M	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	
Α 6	TABES DORSALIS	-	-		-	-	-	-	-	-		-	-	-		-	-	-	-	-	-	=	-	-	-	-	1 1
Α 9	T GENERAL PARESIS				-	-	-	-	-	-	-	-	=	2	-	-	-	-	-	-	-	-	-	-	-	1	
A 10	) OTHERS M	1		-	=	=		-	-	-	-	-	=	-	-	-	-		-	2	-				- 3	-	1 1
	TOTAL (A6-A10) M	6	-	-	-	-		-	-			-		-	-	-	-	:	=	-	i	-	5	=	3	Ī	
	GONOCOCCAL INFECTION H	6			-	-		-	-	-	-	-	ī	-	1	-	Ξ	-	-	-	i	Ē	5	=	3	-	= =
	F T	-	1	=	-	Ē		Ē	=	Ē	Ē	=	-	Ē	-	-	-	Ē	-	=	Ē	-	Ē	Ξ	=	-	= =
	PARATYPHOID AND OTHER H	=			=	-	Ē	=	=	=	-	Ξ	-	-		Ē	-	Ē	-	Ē	=	-	-	Ξ	-	-	3 5
	SALHONELLA F	-	-	-	Ē	-	-	-	-	Ξ	-	-	-	-	:		ī	-	Î	-	Ē	-	Ē		-	=	: i
	CHOLERA M F T	-	-	-			-	=	Ē	-	-	-	Ē	Ĩ	-	-	-	-	-	-	Ī	-	-	=	-	Ē	ĒĒ
	BRUCELLOSIS		Ī		-	-	-	=	-	-	Ē	-	-	Ē	:	-	-	÷	-	-	-	-	Ē	Ξ	-	Ē	: :
	DYSENTERY # F		-	-	-	Ē	=	-	Ē	Ī	Ē	=	-	Ē	i	-	Ē	Ī	-	Ē	Ē	Ē	-	-	-	=	Ē. Ē.
	SCARLET FEVER H F T	-	-	-	-		=		Ē		i	Ē		i	-	Ē	-	-	-	Ē	-	Ē	-	-	Ē	-	
A 16	STREPTOCOCCAL SORE THROAT # F	:	-	-	-	-	-	-	-	Ē	Ē	-	Ē	Ē	i	-	-	Ē		Ē	Ē	-	Ē	=	-	-	= =
A 19	ERYSTPELAS H F T		Ē	Ē	Ē	Ē	į	-	-	Ē	Ē	-	-	Ē	Ĩ	-	Ē	ĵ		-	-	-	-	Ē	Ē	-	i i
A 20	SEPTICAEMIA AND PYAEMIA M  F T	2 2 4	-	-	2 - 2	2 2	-	Ē	Ē	Ē	Ē	1	=	-	:	-	-	1	-	2	Ē	=	Ē	Ξ	-		= =
A 21	DIPHTHERIA M F T		-		=	-	Ē	-	-	-	i	-	-	-	-	-	-	1	-	-	-	=	-	1	-	-	2 5
A 22	MHDOPING COUGH M F T	- 3 3	-	- 1 1	- 1 1	- 2	-	ı ı	Ē	Ξ	-	-	-	Ē	-	-	2	Ē	3	Ę	Ξ	Ξ	=	=	-	-	= =
A 23	MENINGOCOCCAL INFECTIONS ** # F T	1 1 2	-	Ē	Ξ	-	-	1 -	-	=	-	1	-	2	-	-	-		1	-	-	-	-	-	-	-	= =
A 24	PLAGUE M F		-	-	-	-	Ē	-	-	-	-	=	-	-		ī	-	:	-	-	-	-	-	-	-	-	
A 25	LEPROSY	=	-	Ξ	Ē	Ē	- 1	-	-	-	-	-	2	-	0	:	-	-	-	-	-	-	-	-	-	-	= =
A 26	TETANUS	-	-		-	=	-	-	-	-	-	2	- -	-	-	-	-	-	-	=	-	-	-	-	-	-	 
A 27	ANTHRAX	-	-	-	-	-	-	-		-	-	-	-	Ī	-	-	-	-	-	-	-	-	-	-	-	-	
A 28	ACUTE POLIOMYELITIS # F	-	-	-	-	=	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	
ш 29	ACUTE ENCEPHALITIS M	4 2	-	-	-	=	-	-	-	-	1	-	-	-	- L	-	1	:	- 1	-	-	1	-	-	1	-	
ii 30	LATE EFFECTS OF POLIO M MYELITIS AND ENCEPHALITIS F	-	=	-	-	-	-	5	1	-	1	-	-	-	i -	-	t -	-	1 -	-	-	-	-	- -	1 -	-	1 1
A 31	SMALLPOX M	-	-	_	-	-	-	-	-	-	- C	-	-	-	-	-	-	-	-	1	=	-	-	-	-	-	= =
A 32	MEASLES M	1 5	1		-	1	-	-	-	-		-	-	-	-	=	2	-	-	-	-	-	-	=	1	2	
ш эз	YELLOW FEVER	6	_	_	2	2	1	-	2		-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	: :
A 34	T INFECTIOUS HEPATITIS M	- 2	-	-	-	=	1	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	Ē	-	-	-	= =
A 35	RABIES	2 2 4	-	=	-		ī -	-	-	-	-	-	=	-	-	-		1 1	=	-	=	-	1 1	-	-	1 2	= =
	TYPHUS AND OTHER RICKETT- M	-	-	-	-	-	=	-	-	-	-	-	-	-	:	-	-	-	-	-	-	-	=	-	-	-	: :
	STAL DISEASES F T MALARIA	=	-	1	-	=	-	-		-	Ē		-	Ē	Ē	Ĩ	-	-	=	-	-	-	Ē	-	Ē	-	I I
	SCHISTOSOMIASIS	-	=	-	-		=	-	-	-	=	-	-	=	E	-	-	-	=	-	=	-	=	-	-	Ĩ.	= =
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TABLE 6

DEATHS BY CAUSE AND SEX, BY AGE, ALBERTA, 1967

						DEATH		Y CA	USE	ANI	) SE	X, B	Y A	GE, A	ALBE	RTA	, 196	57										
LIST NO.	A CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)	TOTAL	-7 DAYS	7-27 DAYS	DAYS	TOTAL -1	1	2	3	4	5-9 10	0-14 19	5-19 2	20-24 2	5-29	30-34	35-39 4	0-44	45-49	4GE 50-54	55~59	60-64	65-69	70-74	75-79	80-84	85 N.S.	
A .	9 HYDATID DISEASE M F T			-	-			-	1	Ē	-	1	-	-	-	-						-		- 1				
Α -	O FILARIASIS M	-	-	-	-	-	-	-		-	-	-		-	-			-				-			-			
Α -	T ANKYLOSTOHIASIS M	-	-	-	-	-	-	-		-	-			-											-			
Α.	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y		-	-	-		1	-	-		-	-	-		-											-		
	HELMINTHS F	-		-			-	-	1	-	-		-	-								-			-	-		
^	*3 OTHER # F T	5 7	- 3		1	1	-	-	÷	-	2 2	-	-	-				-	1 - 1		1		2 2					
	TOTAL (A1-A43) M F T	42 29 71	Ē	1	5 2 7	5 3 8	1 1 2	1 1 2	- 3 3	Ī	1 2 3	2 2	-	-	1 1 2	1 1	1 1 2	3	3 L 4	t t	2 1 3	4 1 5	3 4 7	4	7 1 8	5 - 5	4 - 2 - 6 -	
	II. NEOPLASMS. MALIGNANT NEOPLASMS (A44-A59).																											
A	44 BUCCAL CAVITY AND PHARYNX M	21 7 28	Ī	ī	ī	-	-		-	-	ī	1		-			1	- 2	I I	1 2	3	3	1	1	6		1 -	
	45 OESOPHAGUS	22	-	-	-	-	-	-	-	-		1	-	-			-	2	- 2	-	3	5	1	1 4	4	3	5 -	
A	46 STOMACH M	30 115 55 170	-	-	-	-	-		-		-			-	- L		1	4	- 1	1	-	17	19	10	6	5	8 -	
A	67 INTESTINE, EXCEPT RECTUM H	170	-	-	-		-			-	-	-	-	-	i	1	3	5	4	6	11	8 25 13	24	21	27	8 24	10 - 18 - 12 -	
	F T	190	=	-	-		-		-	-	-	-		-	-		3	3	3 4	15	14	55	14	16 14 30	14 15 29	14 12 26	12 - 24 -	
	48 RECTUM M F T	51 31 82	Ē	Ē	Ē	-	Ē			-	-	Ī		1 - 1	Ē	5		2 4	1 - 1	3 5	3 4 7	2 6	7 3 10	9 5 14	9 4 13	7 6 13	3 -	
A	49 LARYNX M F T	15	-	-		=	-	Ē		-	-	-		-					1 - 1		1 - 1	3 - 3	3	1	4	2		
A	50 TRACHEA, BRONCHUS, AND LUNG M MOT SPECIFIED AS SECONDARY F T	209 42 251	-	Ī	-	-	-	Ī		-	ī	-	-		-	1	2 - 2	4 5 9	6 2 B	14	25 8 33	39 4 43	36 2 38	30 3 33	33 9 42	16 2 18	3 -	
A	51 BREAST M	1 155 156	-	-	-	1	2			-		-	:	-	1	4	8	15 15	22	20	19	14	13	10	1	12	7 -	
	SZ CERVIX UTERI F	31			-	-				-					2	2	3	1	3	1	5	2	5	1	3	-		
	53 UTERUS, OTHER PARTS F 54 PROSTATE M	18	-	-	-	-	-				-		-				1 -	-	- E	7	1	3 8	1 12	15	22	23	2 -	
A	55 SKIN	14 6 20		-	-		-			:	-	- 1	-	-			I I	2 - 2	1 1 2	3	5 - 5	i i	3 1	1		1 1 2	1 -	
A	56 BONE AND CONNECTIVE TISSUE M	10		-	-	-	-			-	-	2	1	1	-		1	1	2		2	į	1	4				
A	57 OTHER AND UNSPECIFIED SITES.	20	-	-	-	-	~	-					4	1			1	·	,		,	1		,				
	A DIGESTIVE DRGANS M (155-159)	96 70	Ē	1	-	-	-						î	-	-		1	2 2	2 4	3	8 9 17	11 6 17	20 9 29	18 15 33	16 14 30	9 5 14	6 - 4 - 10 -	
	B RESPIRATORY ORGANS H (160, 164, 165) F	166	-	ī		-	-	-			1 _	-	-				-	-		-	-		-	2	-	-		
	T	3	-	-	-	-	-			-	1													?				
	C URINARY ORGANS M (180, 181) F	58 27 95		-	Ē		-	1	-	-	1 - 1					1 - 1	1 1 2	1 2	4	7 - 7	7 1 8	8 4 1.2	13 4 17	5 2 7	8 3 11	6 14	7 - 1 - 8 -	
	D BRAIN AND NERVOUS SYSTEM M (193) F	33 19 52	-	-	-		1 - 1	-		-	3 4		1	2 - 2	2 1 3	1 - 1	2 3	3 7	3 2 5	3 2 5	5 1 6	3 2 5	1 2 3	2 1 3	2 - 2		1 -	
	E OTHER # F	36 97 133	-	:	:	-	- :	-		-	1	-	1 1 2	2	2 2 4		1	1 9 10	1 9 10	3 13 16	2 11 13	9	3 11 14	3 10 13	4 8 12	8 8 16	7 - 4 -	
	TOTAL (A57)	236 213 449			1	-	1	1		Ē	3 4		2 2	4	4 3	2	3 4	8 15 23	6 19 25	16 16 32	27	26 21 47	37 26 63	30 28 58	30 25 55	25 19 44	16 - 9 - 25 -	
Δ	56 LEUKAEMIA AND ALEUKAEMIA M	56 31 87	-	-	-	-	-	1	1 2	-	2 2	2	3	3		1 3	2	6 2	2 2	1 3	4	6	11.3	3 4	4	5 4	1:	
A	T S9 LYMPHATIC AND HAEMATOPDIETIC	87		-	-	-	1	1	3	1	4	3	3	3		4	5	8	4	4	•	6	12	7	6	9	2 -	
	SYSTEM.  A HODGKIN S (201)	19	-	:	1		-	ī		-	1	-	2	-	3		3	3	1	2	2	3		1 1		i	1 :	
	8 OTHER M	26 44 23	-	-	-	-		-		1	1		1	1	l L	ı	1	3	5	3	1	9 2	6 7	4 5	9	2	4 -	
	TOTAL (A59)	23 67	-	-	-		-			1	1	-	2	1	1 4	1	2	3	3	S	1 3	11	13	9	13	2	5 -	
	F T T TOTAL (A44-A59) M	63 30 93	-	-	-	-	-	- 2	1	1	1 6	- 3	7	1	4	1 7	5	3	2 5	54	80	14	13	111	13	3	1 - 6 - 71 -	
	F T	1,739	Ē	=			2	2	3	2	6 6	7	13	10	15	10	15 22 37	31 45 76	24 60 84	54 68 122	80 75 155	136 68 204	141 78 219	135 77 217	156 85 241	100	120 -	
A	60 BENIGN AND UNSPECIFIED M F T	18	-				Ē	Ē	÷	Ē	1	2		:		1	1		2	?	1	? 5		-	1 2	ī	1 -	
	TOTAL (A44-A60) M F T	1,015 742 1,757	Ē	2	1 1	1 1	l l 2	2 - 2	1 2 3	1 1 2	6 7 13	3 4 7	7 6 13	10	9 6 15	7 11 18	15 23 38	31 45 76	26 60 86	70 124	80 76 156	139 70 209	141 78 219	135 77 212	157 86 243	117 70 187	72 - 49 - 121 -	
	III. IV. ALLERGIC, ENDOCRINE, METABOLIC AND BLOOD DISEASES.																											
А	61 NON-TOXIC GOITRE P	-	=	-	-	-	=	-		Ē	-		-	-	-		- 1	-			-	÷		-		-		
A	62 THYROTOXICOSIS M F	-	-		-	-	-	-	i i		-		-	-				-	-		=	-	-	-	3	-		
A	63 DIABETES MELLITUS M	90 89 179			-	-	=	-	-	=	-	-	1	1	2 1 3	1		-	2	3	8 5 13	6 9 15	9 12 21	14 18 32	16 14 30	20 20 40	7 -	
A	64 NUTRITIONAL DEFICIENCY M STATES F	179	1	:	-	-	-			-	-		1	-	3	1		-	3	3	13	15	51	32	30		16 -	
	1	3	-	-			-	-		=	-	-		-	-					-	?	3	- 2	1	1	2	2 -	
	65 ANAEMIAS M F T	11 6 17	-			=	1	-		Ξ.	-	-	-	1		-	-	1	1	-	1	3	2	1 2	1	3 5	3 -	
A	66 DTHER	37 25 62	=	- 5	2 2 4	4 2 6	1	=		1	-	1 2 3		1	Ē	1 3	1 2	1 2	î	6	î	3 4	è o	8	6 3 9	8		
	TOTAL (A61-A66) M F T	141 120 261	=	2 - 2	2 2 4	4 2 6	1 1	-	-	1	Ē	2 3	1	1 2 3	1 3	3 L 4	1 1 2	1 2	1 4	7 2 9	11 5 16	10 12 22	16 13 29	19 23 42	24 17 41	27 24 51	9 - 12 - 21 -	
	Y. MENTAL. PSYCHOMEUROTIC AND PERSONALITY DISORDERS.																											
A	67 PSYCHOSES	4 3 7	1	-	-	-	-	-	-	=	=	-	-	=	-	-	i	-	-	-	-	1 2	- 1	-	2	1	1 1	
	Ť	7	-	-		-	-															,			2	1		

TABLE 6
DEATHS BY CAUSE AND SEX, BY AGE, ALBERTA, 1967

LIST NO.	A CAUSE OF DEATH INTERMEDIATE LIST II (SEVENTH REVISION)	TOTAL.	-7 DAYS	7-27 2 DAYS D	e FOT.	AL 1	AGI	2 :	3	4 5	-9 10	-14 15·	-19 20	-24 25	-29 30	-34 35-3	9 40-44	45-49 1	AGE 0-54 5	5-59 6	0-64 6	5-69 7	0-74 7	15-79 8	0-84	85 N.S.
	PSYCHONEUROTIC AND PERSONA- M		_		_	_	_	_	_	_	_	_	_	-	1	_	1 2		-	2	2	1	_	2	_	1 -
	LITY DISORDERS F	23	-	-	-	-	-	2	-	-	-	-	-	1	ĩ	-	2	i	1	2	3	1	-	2	-	1 -
■ 61	MENTAL DEFICIENCY M	-		-	=	-	-	-	-	Ξ	3	3	Ξ	-	-	3		-	-	=					-	I I
	TOTAL (A67-A69)	24	-	-	_	-	-	-	-	-	-	-	-	-	1	-	. 2	8	-	2	3		-	•		1 :
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	VI. DISEASES OF THE NERVOUS																									
A 71	CEREBROVASCULAR LESIONS M	549 470 1+019	-	- 1	-	ī	2	-	-	-	1	- 1	1	-	1	4	- 6 4 1	1 5	11 18 29	50	38 24 62	52 40 92	63 60 123	93 75 168	144 102 246	115 - 127 - 242 -
	T L NON-MENINGOCOCCAL M	1.019	-	-	i .	1	_	_	_	-	1	1 -	1	1	2	*	7	6	29	29	62	92	123	168	246	
A /	MENINGITIS F	3 6	1	Ī	1	i 2	1	-	1	ī	Ī	Ī	-	2	-	Ī	: :	1	2	2	2	1	1	1	ī	1 1
A 7	2 MULTIPLE SCLEROSIS M	10		-	-	Ī	Ξ	-	-	-	-	-	-	Ī	ī	1	 2 1	1 2	1	1	1	1	-	Ξ	Ĭ	2 2
н 7	3 EPILEPSY	14	_	_	1	1	-	-	-	-	-	2	1	1	2	_	2 -	-	-	-	z 	-	_	1	1	
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H 7	4 INFLAMMATORY DISEASES OF H THE EYE T	- 3		-	-	-	=	-	-	-	-	-	-	-	-	1			3	Ξ	-	Ξ	Ē	Ξ	-	I I
п 7	5 CATARACT	-	-	-	-	-	-	Ţ	Ξ	-	-	-	-	-	-	-	: :	-	-	-	-	-	-	-	-	
	T GLAUCOMA M	-	-	Ē	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	
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A 7	7 OTITIS MEDIA AND B MASTOIDITIS F	3 1	ĩ	2	1	_	-	-	-	Ξ	Ξ	-	-	1	-	Ī.	: :	Ī	-	-	Ξ	2	1 -	Ξ	Ξ	= =
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	F T	33 63	Ξ.	2	3	3 3	1	1	-	-	-	1	-	-	-	3	i	1	2	3	5	11	1	13	6	1 -
	TOTAL (A70-A78) # F	600 525 1,125	1 - 1	-	l H	5 7	1 1 2	1 1	1	-	2 2	2 4 6	2 1 II	2	3 2 5	6 L 7	1 7 6 2 8 9	2 II 10	13 20	22 14 36	42 27 69	61 46 107	68 64 132	101 82 183	148 109 257	116 - 128 - 244 -
	VII. DISEASES OF THE CIRCULATORY SYSTEM.																,						-74			
	HEART DISEASE (A79-A83).																									
Α 7	9 RHEUMATIC FEVER	-	- 1	-	-	-	-	Ξ	-	Ξ	Ī	1	-	2	-	-	: :	-	Ξ	-	-		Ξ		ĵ.	1 1
# 6	O CHRONIC RHEUMATIC II	26	-	_	_	_	-	_	-	_	-	1	_	-	-	1	1 2	3	3	2	5	-	1	_	3	3 -
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A B	1 ARTERIOSCLEROTIC AND M DEGENERATIVE F	1,792 871 2,663		-	-	-	-	-	3	Ξ	Ē	Ē	1 - 1	1	2	7 1 4 11 1		57 7 64	113 12 125	157 29 186	172 60 232	208 85 293	283 129 412	294 166 460	247 173 420	203 1 197 - 400 1
Α 6	2 OTHER	92	-	-	-	-	-	1	-	-	-	-	-	į.	1	-		2	2	5	6		11	13	25 18 43	19 -
	3 HYPERTENSIVE H	72 164	-	-	-	-	1		-	-		i	i	1	2	2	i -	- 4	4	11	11	ıί	17	22	43	13 -
м о	F	33 37 70	- 1	-	-	-	Ξ.	-	-	Ξ	Ξ	-	-	1	-	-			2	2	2	4	5	6 9	10 16	6 - 8 - 14 -
	TOTAL (A79-A83) M	1.943 1.034 2.977	ī	1	1	Ī.	Ī	1 -	1	-	-	1	1	2	3	7 1	5 9	62 11 73	120 20	168 41	184 77	224 104 328	298 147 445	310 188	281 203 484	231 1 219 -
A 8	T HYPERTENSION M		_	_	-	_	-	-	_	-	-	-	2	- Z	-	14 1	7 46	73	140	209	261	328	445	498	484	450 1
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	5 ARTERIAL DISEASES M	149 112 261	-	Ξ	Ī	-	1	Ξ	-	-	1	1	-	-	Ξ.	- 2	- 1 - 1	3	1 6	5 4 9	11 12	10	21 14 35	29 20 49	23 27 50	45 - 34 - 79 -
A E	T OTHER M	40	-	-	-	-	_	_	1	_	_	-	-	-	-	-	1 1	2	4	2	3	3	2	9	7	5 -
	F	26 66	-	-	-	-	=	-	1	Ĩ	-	Ξ	-	-	-	-	3 2	3	6	4	5	5	4	12	13	8 ~
	TOTAL (A79-A86) # F	2-158 1-192 3-350	=		=	Ξ	-	1 1	1	-	=	1 1 2	1 2	III - 2	3 1 4	7 1 9 16 2	3 39 7 11 0 50	70 13	126 28 154	176 IIII 224	200 82 282	240 109 349	323 167 490	355 215 570	315 242 557	284 1 258 - 542 1
	VIII. DISEASES OF THE RESPIRATORY SYSTEM.																									
A 8	87 ACUTE UPPER RESPIRATORY M	6 2	-	-	2	2	2	1	-	-	-	-	-	-	-	1		l.	-	-	2	-	-	-	2	: :
A 6	T	8	-	-	5	5		1	-	-	-	-	-	-	-	-		l -	-	-	-	-	-	-	- 2	
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	PMEUMONIA (A89-A91).																									
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	70 BRONCHO M	96 75 171	-	-	II 12 20	6 12	3	2	-	1	1	-	1	ı			1 1								15	31 - 29 - 60 -
Δ .	т	171												-	-	-	- î	i	2	1 1	<u> </u>	1	11	11	15	60 -
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	PI ATYPICAL, OTHER W UNSPECIFIED F T	59 42 101	Ē	-	11 16 27	11 16 27	1	Ē	Ē	1	1	-	2 - - -	i	1 1	1	1 2 1 - 1 -	2	2 1 11 2 - 11	1 1 1	4 - 4 II 1 3	1 1 2 2 - 2	3 2 5	7 3 10	13 5 18	15 - 15 - 30 -
	UNSPECIFIED F TOTAL (A89-A91)	101	Ē	-	11 16 27	11 16 27	1 4	2 - 2		1 - - - 1	1 - 1	-	2 - - - 1 1 2	1	1 1 1		1 2 1 - 1 - 2 2 2 2 - 1 2 3	1 2 1 1 2	2 1 11 2 - 11 5 1 6	1 - 1 - 2 3 5	4 	2 2 2 3 2 5	3 2 5	7 3 10	13 5 18	
	UNSPECIFIED F T TOTAL (A89-A91) # F T BRONCHITIS (A92, A93).	101 170 129 299	=		11	11	1 4 4	2 - 2		1 - 1 - 1	1 1 1		1 1 2	1 1	1 1 1 1		1 2 1 - 1 - 2 2 2 2 1 2 3	1 1 2 2	2 1 11 2 - 11 5 1 6	1 2 1 2 3 5	4 	2 2 2 2 3 2 5 5	11 5 16 3 2 5	7 3 10 22 15 37		48 - 46 - 94 -
A	UNSPECIFIED F TOTAL (A89-A91) # F BRONCHITIS (A92, A93). 92 ACUTE # F	101 170 129 299	=		11 16 27	11 16 27	1 1 1	2 2		1 1 1	1 1 1		1 1 2	_	1 1 1		2 3	1 1 2 1 1 2 2	2 1 1 2 - 1 5 1 6	1 1 2 1 - 1 2 3 5	4 	2 2 2 3 2 5 5	3 2 5	7 3 10 22 15 37	13 5 18	48 - 46 - 94 -
	UNSPECIFIED F T TOTAL (A89-A91) # F T BRONCHITIS (A92, A93).	101 170 129 299 2			11 16 27 20 30 50	11 16 27 20 30 50	1	_		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 2	1 1 1			1 2 1 - 1 - 2 2 2 1 2 3	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1 1 2 7 1 6	1 2 3 5	4 H 1 1 3 7 1 H 7	6	3 2 5 16 7 23	7 3 10	13 5 16 31 21 52	48 - 46 - 94 -
	UNSPECIFIED F TOTAL (A89-A91)	101 170 129 299 2 1 3 61 13		=	11 16 27 20 30 50	11 16 27 20 30 50	1 1	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2 3	1 1 2	ž	3 3	7 1 8	- - - 8 2 10	3 2 5 16 7 23	19 7 3 10 22 15 37	13 5 16 31 21 52	48 - 46 - 94 -
	UNSPECIFIED F TOTAL (A89-A91)	101 170 129 299 2			11 16 27 20 30 50	11 16 27 20 30 50	1	_		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		î	_			2 3	1 1 2 2 1 1 2 2 1 1 1 1 1 1	-	3	7	6	3 2 5 16 7 23	19 7 3 10 22 15 37	13 5 18 31 21 52	48 - 46 - 94 -
Α	UNSPECIFIED F TOTAL (A89-A91).	101 170 129 299 2 1 3 61 13 74 63 14 77			11 16 27 20 30 50 50	11 16 27 20 30 50	1 1	1 1 1		1	_		1 1 1				2 3	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 - 2	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 1 8	- - - 8 2 10	3 2 5 16 7 23	19 7 3 10 22 15 37	13 5 10 31 21 52 	48 - 46 - 94 - 1 - 1 - 7 - 1 - 8 - 1 - 9 -
A ·	UNSPECIFIED F TOTAL (A89-A91)	101 170 129 299 2 1 1 3 61 13 74 63 14 77		=	11 16 27 20 30 50	11 16 27 20 30 50	1 1	1	1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ī 1 1				2 3	1 1 2 - 1 1 1 2 - 1 1 1 1 1 1 1 1 1 1 1	2 -	3 3 3 3 - 3	7 1 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- - - 8 2 10 8 2	3 2 5 16 7 23	19 7 3 10 22 15 37	13 5 18 31 21 52 	48 - 46 - 94 - 1 - 1 - 1 - 8 - 8 - 1 - 9 -
N II	UNSPECIFIED F TOTAL (A89-A91) F BRONCHITIS (A92, A93).  92 ACUTE	101 170 129 299 2 2 1 3 3 61 13 74 63 14 77 2 2 2 4			11 16 27 20 30 50 50	11 16 27 20 30 50	1 1	1 1 1	1	1	_		1 1 1				2 3	1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	7 1 8	- - - 8 2 10 8 2	3 2 5 16 7 23	19 7 3 10 22 15 37	13 5 10 31 21 52 	48 - 46 - 94 - 1 - 1 - 1 - 1 - 8 - 8 - 1 - 9 - 
N II	UNSPECIFIED F TOTAL (A89-A91)	101 170 129 299 2 1 3 61 13 74 77 2 2 2 2 4			11 16 27 20 30 50 50	11 16 27 20 30 50	1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1122	1	_		ī 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				2 3	1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2	3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	77 11 8	- - - 8 2 10 8 2	3 2 5 16 7 23 13 2 15 13 2 15	19 7 3 10 22 15 37	13 5 16 31 21 52 	48 - 46 - 94 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
A II	UNSPECIFIED F TOTAL (A89-A91) F BRONCHITIS (A92, A93).  92 ACUTE	101 170 129 299 2 1 1 3 61 13 74 63 14 777 2 2 2 4 2 2 2 3			11 16 27 20 30 50	111 166 277 200 300 500 500 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2				1				2 3	-	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 1 8 7 1 8	6 2 10 8 2 10	3 2 5 16 7 23	19 7 3 10 22 15 37 13 13 13	13 5 10 31 21 52 	48 - 94 - 91 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
A II	UNSPECIFIED F TOTAL (A89-A91)	101 1709 299 299 2 1 1 3 3 61 133 74 63 64 77 77 77 77 2 2 2 2 2 2 2 2 3 3 5 5			11 16 27 20 50 50 50 50 50 50 50 50 50 50 50 50 50	11 16 27 20 30 50 50 1 1 1 1 2 2 3 3 2 2 - 2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				2 3	2 2 4	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 1 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 2 10 8 2 10	3 2 5 5 16 7 23 13 2 2 15 15 1 1 1 1 1 1 4 15	19 7 3 10 22 15 15 37 13 13 13 13 13 13 13 13 13 13 13 13 13	13 5 10 31 21 52 52 6 6 2 8 8 6 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	48 - 48 - 94 - 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
A II	UNSPECIFIED F TOTAL (1499-491)	101 170 129 299 2 1 1 3 61 13 74 63 14 777 2 2 2 4 2 2 2 3			11 16 27 20 30 50 50	11 16 27 20 30 50 50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111	1112	1 1			1				2 3 3 - 1 1 - 1 1 1 - 1 1 1 - 1 1 1 1 - 1	-	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 1 8 7 1 8	6 2 10 8 2 10	3 2 5 16 7 23	19 7 3 10 22 15 37 13 13 13	13 5 10 31 21 52 	48 - 94 - 91 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
A II	UNSPECIFIED F TOTAL (A89-A91)	101 170 129 299 2 1 1 3 61 13 14 77 77 2 2 2 4 4 2 7 2 1 3 3 14 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18			11 16 27 20 50 50 50 50 50 50 50 50 50 50 50 50 50	11 16 27 20 30 50 50 1 1 1 1 2 2 3 3 2 2 - 2		111111111111111111111111111111111111111	1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				2 3	2 2 4	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 1 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 2 10 8 2 10	3 2 5 5 16 7 23 13 2 2 15 15 1 1 1 1 1 1 4 15	19 7 3 10 22 15 15 37 13 13 13 13 13 13 13 13 13 13 13 13 13	13 5 10 31 21 52 52 6 6 2 8 8 6 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	48 - 48 - 94 - 11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
A ·	UNSPECIFIED F TOTAL (1499-491)	101 170 129 299 2 1 3 3 61 13 74 63 14 77 77 2 2 2 2 2 2 3 3 5 10 10 10 10 10 10 10 10 10 10 10 10 10			111 127 20 30 50 50 11 1 1 1 2 2 3 3 	11 16 27 20 30 50 50 1 1 1 1 2 2 3 3 2 2 - 2	7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1		1 1 1 2 2 4				2 3 3 1 1 1 1 1 1 1 1 1 1 1	2 2 2 4 4 6 8	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 3 3 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1	7 1 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 2 10 8 2 10 10 11 12 12 23 4 4 27	3 2 2 5 16 7 23 23 15 15 15 15 15 15 15 15 15 15 15 15 15	19 7 7 3 10 22 15 37 13 13 13 13 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	13 5 10 31 52 52 8 6 6 2 8 8 7 7 11 12 1 7 13 13 13 13 13 13 13 13 13 13 13 13 13	40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -
A	UNSPECIFIED F TOTAL (A89-A91)	101 170 129 299 209 21 3 3 61 3 74 4 4 77 2 2 2 2 3 3 5 5 103 3 7 100 2 100 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			11 16 27 20 30 50 50 1 1 1 1 1 2 2 3 3 3 3 3 3 1 1 1 2 2 2 3 3 3 3	11 16 27 20 30 50 50 11 1 1 2 2 3 3 2 2 - 2 2 2 3 3 50 61			1 1 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1		1 1 1 1 2 2 2 4 4				2 3 3 1 1 1 1 1 1 1 1 1 1 1	2 2 4	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 3 3 3 3 3 3 1 1 1 1 2 7 1 1 9	7 1 1 8 7 7 1 1 8 8 7 7 1 1 1 1 1 1 1 1	6 2 10 8 2 10	3 2 5 5 16 7 23 13 2 2 15 15 1 1 1 1 1 1 4 15	19 7 3 10 22 215 37 13 13 13 13 13 13 13 13 13 13 13 13 13	13 510 31 52 52 8 6 6 2 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40 - 40 - 94 - 11 11 - 12 - 12 - 12 - 12 - 12 -
A A A	UNSPECIFIED P TOTAL (A89-A91). P BRONCHITIS (A92, A93). 72 ACUTE P TOTAL (A92, A93). P TOTAL (A92, A93). P TOTAL (A92, A93). P TOTAL (A92, A93). P TOTAL (A92, A93). P TOTAL (A92, A93). P TOTAL (A92, A93). P TOTAL (A92, A93). P TOTAL (A92, A93). P TOTAL (A93, A93). P	101 170 129 299 299 1 1 3 3 101 137 74 20 2 2 2 4 4 2 7 102 103 104 107 100 100 100 100 100 100 100 100 100			111 127 20 30 50 50 11 1 1 1 2 2 3 3 	11 16 27 20 30 50 50 11 1 1 2 2 3 3 2 2 - 2 2 2 3 3 50 61	7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1		1 1 1 2 2 4				2 3 3 1	2 2 3 4 4 8 8	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 3 3 3 3 3 3 1 1 1 1 1 1 0 1 1 1 1 1 1 1	7 1 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 2 10 8 2 10 10 11 12 12 23 4 4 27	3 2 2 5 16 7 23 15 13 2 15 15 15 14 14 15 14 15 14 15 14 15 14 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	19 7 7 3 10 22 15 37 13 13 13 13 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	13 5 10 31 52 52 8 6 6 2 8 8 7 7 11 12 1 7 13 13 13 13 13 13 13 13 13 13 13 13 13	40 - 40 - 40 - 40 - 40 - 40 - 40 - 40 -
A A A	UNSPECIFIED  TOTAL (AB9-A91).  P BRONCHITIS (A92, A93).  P2 ACUTE	101 170 129 299 2 1 3 0 1 114 747 777 777 2 2 4 2 2 2 3 5 5 1 1 2 1 2 2 2 3 5 5 1 1 1 2 2 2 2 3 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			11 16 27 20 30 50 50 1 1 1 1 1 2 2 3 3 3 3 3 3 1 1 1 2 2 2 3 3 3 3	11 16 27 20 30 50 50 11 1 1 2 2 3 3 2 2 - 2 2 2 3 3 50 61	7		1 1 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1		1 1 1 1 2 2 2 4 4				2 3 3 1	2 2 3 4 4 8 8	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 3 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7716677188	6 2 10 8 2 10 10 11 12 12 23 4 4 27	3 2 2 5 16 7 23 15 13 2 15 15 15 14 14 15 14 15 14 15 14 15 14 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	19 7 3 10 22 215 37 13 13 13 13 13 13 13 13 13 13 13 13 13	13 510 31 52 52 8 6 6 2 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40 - 40 - 94 - 11 11 - 12 - 12 - 12 - 12 - 12 -

TABLE 6
DEATHS BY CAUSE AND SEX, BY AGE, ALBERTA, 1967

				1	DEATH	IS E	BY C	AUSI	E AN	ID SI	EX, I	BY A	GE,	ALBI	ERTA	, 19	67									
LIST A CAUSE OF DEATH NO. INTERMEDIATE LIST # (SEVENTH REVISION)	TOTAL	DAYS	7-27 DAYS	28 DAYS	TOTAL -1	1	II II	3	4	5-9	10-14	15-19 8	20-24	25-29	30-34	35-39	40-44	45-49	AG 50-54	55-59	50~64	65-69	70-74	75-79	80-84	III N.S.
A 101 GASTRITIS M	1 1	=	- 1	1	=	=	-	-	-	ī	-	-	-	-	-	-	-		-	-		-	-	1	-	
A 102 APPENDICITIS	7	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	1	-	-	1		-	1	1 2	- 1	1 1
A 103 INTESTINAL OBSTRUCTION AND M HERNIA F	7 36	6	-	-	-	1	-	-	-		-	-	-	-	- 3	-	1 2	-	ī	ī	-	-	1	2	1	
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# 106 CHOLELITHEASES AND CHOLECY- M STITES F T	17 27 44	=	3	-		=		-	-	-		-	-	- 1 1	-	-	-	- 2	2	- 5 6	2 1	1	2	6 5	6 2	2 -
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N. DISEASES OF THE GENETO- URINARY SYSTEM.	-	·		4.9	23		,	_	-	3	2	2	Z	3	6	9	10	19	10	27	25	27	16 36	51	43	51 -
# 108 ACUTE NEPHRITIS M F	2 - 2		-	-		Ξ	-	ī	-	1	:	~	-	- 1		-	-		-	Ē	1	1	-	į.	-	
A 109 CHRONIC AND OTHER NEPHRITIS H	30 20 50	Ī	-	-	-	-		-	-	-	-	-	2	1	1	l 2	-	2 2	1	1	1	7	5	1 4	-	2 -
A 110 INFECTIONS OF KIDNEY H	50 22 19 41	-	-	-	-	-	-	-	-	-	-	-	2	1	2	3		4	5	2	1	10	7	6	5	2 -
# 111 CALCULT M	41	-	-	-	=	-		-		-	-	1	2	1	-	-		3	-	2 4	1	2 4	2 2	6	8	7 -
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A 113 BREAST	-	-	ï	-	=	-	-	-	1	-		-	-	-	-	-	-		-	1	-	2	-	7	-	9 -
A 114 OTHER	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	-	-	- 2	1	1 -
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Y XI. COMPLICATIONS OF PREG-	89 54 143	-	-	-	-	=	-	-	-	-	-	1	5	3	3	5		5	5	3 8	5	19	17	8 24	20	2 -
NANCY, CHILDBIRTH, AND PUERPERIUM.																										
A 115 SEPSIS F A 116 YOXAEMIA F	5		-	-	-	-	-	-	-	-	-	-	1	-	-	ı	-	-	-	-	-	-	-	-	-	
A 118 ABORTION WITHOUT SEPSIS OR F	2 -	-	-		-	-		-	-	-	-	-	-	-	1 -	1 -	-	-	-	-	-	-	-	-	-	
TOXAEMIA A 119 ABORTION WITH SEPSIS F		-				-		-	-	-	-	-	-	-		-	-	-		-	-		_	-	-	
# 120 OTHER F	l 5	-	-	-	-	_	-	-	-	-	-	-	1 2	-	î L	- 2	-	-	-	-	-	-	-	-	-	
XII, XIII. DISEASES OF THE SKIN MOSCULOSKELETAL SYSTEM A 121 SKIN INFECTIONS	2	=	-	l e		-	=	-	Ē	Ē			ī	=		_	-	-		t	_	_	•	-	1	
A 122 ARTHRITIS AND SPONDYLITES M	5	-	-	-	-	-		-	-	-	-	-	-	-	-	-		1	1	ī		1	2	1	1	1 -
F T A 123 RHEUMATISM	18	-	-	-	-	-	-		-		-		-	1	1	-	-	ī	-	ì	2	1	2	2	3	5 -
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XIV. CONSENITAL MALFORMATIONS.																										
A 127 SPINA BIFIDA AND MENINGOCELE.  A WITHOUT HYDROCEPHALUS M	3	ı	1	_	2	_	-	_	-	1	-	_	_	_	_				_	_	1	_				
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XV. DISEASES OF EARLY IMPANCY.	149	70																								
A 130 GIRTH ENJURY H F	23 20 43	23 20 43	Ē	-	23 20 43	-	Ē	-	-	-	-	Ē	-	Ē	Ē	Ē	-	-	-	-	Ē	-	Ē	Ē	i	: :
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A 13Z INFECTIONS OF H	7	69 4 3 7	3	=	7 3	=	Ē	-	Ξ	Ē	=	-	Ē	ē	-	:	-	Ē	-	-	-	Ē	-	i	=	Ē Ē
T A 133 ERYTHROBLASTOSIS	10 5 4	7 5 4 9	3	-	10 5 4	-	-	-	-	-	-	-	-	-	=	:		-	-	-	-	-	-	-	-	
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TOTAL (A130-A135) H F T	208 166 374	180 147 327	7 5 12	21 14 35	166	Ē	-	-	-	Ē	=	=	Ē	Ī	Ē	-	Ē	Ī	-	-	Ē	Ē	=	Ē	Ē	: :

### DIVISION OF VITAL STATISTICS

TABLE 6
DEATHS BY CAUSE AND SEX, BY AGE, ALBERTA, 1967

LIST A CAUSE OF DEATH NO. INTERMEDIATE LIST A		-7 1	1-27 2 0AYS D	8 TC	OT AL.		GE												AGE							
(SEVENTH REVISION)			AYS D	AVS	-1	1	2	3	4	5-9 10	0-14 1	5-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85 N.S.
A 135 ILL-DEFINED # F	127 101 228	104 88 192	3 6	20 10 30	127 101 228	-	-	Ē	-	- 3	-	-		-	Ē	-	=		-	Ξ	-	-	-	=	-	1 1
KVI. SYMPTOMS, SEMILITY AND ILL-DEFINED COMDITIONS.																				-	_	-	_	-	-	
# 196 SENILITY WITHOUT PSYCHOSIS M	18 21 39	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	Ī	-		Ξ	-	Ξ	1	1	4 9	13 - 10 - 23 -
= 137 TLL-DEFINED AND UNKNOWN #	144	_	_	_	_	_	_	_	_	-	_	_	-	_	2	1	9	4	11	23	17	29	1 14	23	13	
F	72 238	=	-	-	-	1	-	-	-	=	-	1	2	1	2	2	12	5	15	29	19	7 36	5 19	14 37	18	20 - 19 - 39 -
TOTAL (A136, A137) H F T	184 93 277	-	-	=	=	ì	-	-	3	-	=	1	2 2	k k	2 - 2	1 2	9 3 12	4 1 5	11 4 15	23 6 29	17 2 19	29 7 36	14 6 20	24 15 39	17 14 31	33 - 29 - 62 -
MVII. ACCIDENTS, POISONINGS AND VIOLENCE.																										
EXVII. EXTERNAL CAUSE. AE 138 MOTOR VEHICLE ACCIDENTS.																										
A TRAFFIC (810-825) M F T	317 102 419	-	-	l !! 3	1 2 3	1 - 1	1 1	2 3 5	1 2 3	10 4 14	11 3 14	47 14 61	70 8 78	25 4 29	6 27	17 5 22	17 9 26	20 9 29	18 7 25	17 7 24	6 3 9	9 23	7 - 7	6 2 8	3 7	2 -
II MON-TRAFFIC	11 3 14	Ī	-	Ī	_	1	1	-	1	1 - 1	1	2 - 2	1	-	2	1 -	-	-	1 -	-	-	-	Ī	1 -	1 -	2.5
TOTAL (AE138)	328	-	-	1 2	l 2	1	1	2	1	11	12	49	70	25	23	18	17	50	19	17	6	14	7	7	5	2 -
T AE 139 OTHER TRANSPORT ACCIDENTS.	105 433	-	-	3	ì	2	2	5	4	15	16	63	78	29	29	23	26	29	26	24	9	23	7	9	8	2 - 1 - 3 -
A DROWNINGS INVOLVING SMALL # BOATS (850)	3	-	-	~	-	_	-	-	_	-	-	-	1	1	-	-	-	1	_	_	_	_	~	_	_	
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II DROWNINGS INVOLVING OTHER II MATERCRAFT (851)  II	-	-	-	-	=	Ē	-	-	-		-		-	-	=	-	-	=	-	Ē		Ē	-		-	3 3
C OTHER TRANSPORT	24	-	-	1 -	1	-	-	-	-	-		1	-	3	6	1	6	-		1	2	1	1	-	-	1 -
TOTAL (AE139) M	25 27			1	1		-	-	-	i		1	-	3	6	1	6		-	1	5	1	1	-	-	1 -
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AE 140 ACCIDENTAL POISONING #	3.5 7	-	-	-	-	1	-	~	-	-	-	1 -	2	3	2	5 2	5 2	3	3	3	5	1	-	1	-	: :
AE 141 ACCIDENTAL FALLS M	42 71	-	-	-	-	1	-		-	-	1	2	3	3	3	7	7	4	3	3	5	1 7	-	1	2	22 -
F T	61 132		-	2	2	Ξ	2	Ξ	-	Ξ	1	4	1	-	3	1	2	-	5	1 4	4	9	-	10	21	22 - 21 - 43 -
4E 142 ACCIDENT CAUSED BY M MACHINERY F	20 1 21	-		-	=	_ 1		Ξ	3	1 - 	3 -	2 - 2	2 -	-	1 -	1 -	2 -	3	1	2 -	=	1 -	=	Ξ	-	1 -
AE 143 ACCIDENT CAUSED BY FIRE AND II EXPLOSION F	36 18 54	-	-	- 2	2	2	1	ī	1	5 4	5	1 -	3	1 -	2	3 -	5	2	1 2	2	1	-	2	2	1	1 -
AE 144 OTHER ACCIDENTAL BURNS #	2	-	-	-	- -	-	-	-	-	-	-	1 - -	-	-	-	1	-	-	3	3	-	-	2	2	2	
AE 145 ACCIDENT CAUSED BY FIREARM III	3	-	-	-	-	-	-	-	-	- 2	1	- 6	- 2	1	_	1	-	-	-	1	-	-	-	-	1 -	1 -
T AE 146 ACCIDENTAL DROWNING W	14	-	-	-	-	- 2	1	-	1	7	1 6	6	2	1 5		1 2	- 2	-	1	1 -	-	2	-	-	-	1 -
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AE 147 ALL OTHER ACCIDENTAL CAUSES M	48 21 69	2	-	8 8 16	8 10 18	-	-	1 -	1	3 -	1 10	3 1 4	3 6	2 6	4		2 1 3	2 - 2	2 - 2	Ξ	5 1 6	1	1	=	1 - 1	3 3
TOTAL (AE138-AE147) M	629 226 855	2	-	10 14 24	10 16 26	6 5	3	3 5	II 5	2 9 9	34 7	75 18	87 14 101	43 6 49	42	33	41 16 57	32 10 42	32	29	22	26 12 38	16	21 12 33	16 25 41	27 - 23 1 50 1
AE 148 SUICIDE	855 110	-	-	24	26	- 11	-		-	38	41	93	12	8	51 10	10	15	10	41 8	38 12	28	38	16	33	41	1 1
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AE 149 HOMICIDE	23 14 37		î	1 - 1	1 1	- II 1	1	-	1 - 1	1 2 II	3	1	1 3	1 3	2 2 4	1 2	2	5	3 1 4	1	1 - 1	Ξ	1 - 1	-		E E
AE 150 WAR INJURIES M	Ī	-	-	-	-	1	-	-	-	-	Ξ	Ī	Ī	-	-	-	Ī	-	-	-	-	-	-	-	-	1 1
TOTAL (AE138-AE150) M	762 267	-	-	11	11	•	3		3 5	30	mii LO	83	101	53 10 63	54 12 66	44 12 56	58	47 13 60	43 13 56	62	31	29 13 42	19	21 12 33	16 25 41	26 1
T MXVII. MATURE OF INJURY.	267 1.029	ş	-	14	16 27	12	5	8	i	41	10	20 103	16 117	63	66	56	23 81	60	56	10 52	38	42	21	33	41	23 1 51 2
AN 138 FRACTURE OF SKULL	138	-	-	1	1	-	1	2	-	6	8	19	26 3 29	9	11	6	8	5	11	6	1	8	4	3	1	2 -
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AN 139 FRACTURE OF SPINE AND TRUNK II F	35 17 52	-	-	-	=	-	-	-	-	-	1	2 6	2 10	3	-	1 2	3 5	1 2	1 3	1 3	3	1 3	-	- 2	5	
AN 140 FRACTURE OF LIMBS	46 55 101	2		- 3			-	-	3	3	-	Ē	3 1	1	1	Ē	1 1 2	2	1	-	2	1 3	2	7 7 14	7 19 26	20 - 20 - 40 -
AN 141 DISLOCATION WITHOUT M FRACTURE F	-	-	-	1	:	-	-	-	-	-	-	-	-	-	-	=	į	-	~	2	-	1	-	-	-	
4N 142 SPRAINS AND STRAINS II	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1		-	1	-			-	
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AN 144 INTERNAL INJURY H F T	187 46 233	=	-	1	- 1 1	- 1 1	- 1	2 2	1 1 2	5 1 6	11 2 10	26 4 30	25 2 27	17 3 20	11 3 14	11 5 86	17 4 21	15 4 19	13 2 15	14 5 19	5 1 6	7 3 10	6	2 1 3	2 1 3	2 -
IIII 145 OPEN WOUNDS M F	14 3 17	-	Ī	Ţ	2	-	=	-	=	-	1 - 1	2 - 2	3 - 3	1 - 1	=	2 1 3	1 1 2	1 1	-	Ξ	5	=	-	-	=	2 -
AN 146 SUPERFICIAL INJURY OR H CONTUSION F	- 2	-	-	-	-	-	-	2	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	- 1	-	
T  AN 147 FOREIGN BODY THROUGH N ORIFICE F	16	- 2 2	-	6	- 6 3 9	2	5	-	-	2	5	2	1	1	-	-	2	-	-	-	-	-	-	ĭ -	5	1 =
AN 148 BURNS M	20 35	- - -	-	i -	9	2	-	-	-	2 5	2	z -	3 2	2	•	3	2	- 2	1	1	i	-	1	-	2	
T T III 149 POISONINGS M	17 52 72	-	-	1	1	3	1	-	1 -	9	2	2	5 8	2	5	3	7	2	2 4	2	7	- 2	1	2	3	1 -
F T AN 150 OTHER M	33 105 91	-	-	2 2	2 2 3	2	ī	1 -	1	2 2	1 11	7 4 11	10 8	5 9	1 6 7	4 14 5	6 16	12	8	7	8	3	2	ī	-	1 1
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TOTAL (AM130-AN150) N F T	762 267 1.029	2 2	=	11 14 25	11 16 27	6 12	3 2 5	10 5 11	3 5 8	30 11 41	36 10 46	20 103	101 16 117	53 L0 63	54 12 66	44 12 56	58 23 81	47 13 60	43 13 56	42 10 52	31 7 38	29 13 42	19 2 21	21 12 33	16 25 41	20 1 23 1 91 2
ALL CAUSES F F T	5,895 3,628 9,523	217 161 378	19 19 34	93 110 203	286 615	25 iiii 41	15 5 20	11 12 20	11 7 10	42 54 72	24 72	98 33 131	119 85 153	77 26 103	03 41 124	90 64 154	162 96 258	101 116 297	272 158 430	391 185 576	498 217 715	572 297	657 376 1.033 1	909 477 ,286 L	746 534 ,280 1	662 2 591 1 ,253 3

#### TABLE 7

DEATHS BY CAUSE AND SEX, BY AGE, EDMONTON, 1967

					DE	EATH	IS B	Y CA	USE	ANI	D SE	Х, В	Y A	GE, I	EDMO	ONTO	ON,	1967										
LIST NO.	A CAUSE OF DEATH INTERMEDIATE LIST # ISEVENTH REVISION)	TOTAL	-7 DAYS	7-27 DAYS		OT AL	1	AGE 2		4								40-44	45-40	AGE	** **							
	I. INFECTIVE AND PARASITIC DISEASES.																33.37	10-14	93-99	20-24	22-29	50-64	65-69	70-74	75-79	80-64	85 N.S	•
4	TUBERCULOSIS (A1-A5).  1 RESPIRATORY.																											
	A ACTIVE		-	_	-		-	_		_																		
	T INACTIVE (002.2, 008.2) M			=	=	-	-	-	-	-	Ξ	-	-	-	-	1	-	-	1 - 1	1 1	-	2 2	1	-	- 3	i	1 -	
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	TOTAL (A1) M	10	-	-		-	-	1	-	-	Ξ	-	-	-	-	î		-	1	-	-	2	1	-	1	1	1 -	
A	2 MENINGES AND CENTRAL M NERVOUS SYSTEM F			1	-		-	-	-	-	_	-	-	-	-	i			1	1	-	1	1	-	1	1	2 -	
Α	3 INTESTINE, PERITONEUM AND III MESENTERY		-	-	-	-	-	-	-	-	=	-	-	-	-	-	- 1				-	-	-	-	-		1 1	
	4 BONE AND JOINT		=	Ī	Ξ	-	-	=	Ē	=	Ξ	-	-	-	-	-		-	-		-	-	-	-	-		3 3	
	F T		3	-	=			-	- 3	-	=	-	- 1	-	-	-	-	-	-	2	-	-	-	-	-	-		
A	5 OTHER FORMS M F		-		-	-	-	-	-	-	-	-	-	-	-	-	-	_			-	-	-	-	-			
	TOTAL (AL-AS) H	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-	-	-		2 0	
	SYPHILIS (A6-A10).	10	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	~	1	1	-	2	1	-	1 - 1	1 - 1	1 -	
. A	6 CONGENITAL M	-	-	=	-	-	-	57	-	-	-	-	_	_	-													
Α.	7 EARLY		_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	÷	-	2	-	-	-	-		
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Α	9 GENERAL PARESIS	=	-	Ξ	-	-	-	-	-	-	Ξ	-	-	-		-		-	-		-	-	-	-	-	-		
A 1	0 OTHERS	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	1	-	-			
	TOTAL (A6-A10) H	1	-		=		-	-	-	-	=	-	-	-				-	-	-	-	-	î	-	Î			
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- 1	1 GONOCOCCAL INFECTION H	-		-		-	-	-	-	-		-	-	-	- 3	-	-	2		-	-	-			-	2	1 1	
A 11	2 TYPHOID	2	1		-	-	1	-	-	-	-	-	-	1			-	-			-	-						
A 1	3 PARATYPHOID AND OTHER B SALMONELLA F	-	-	-	-	-	-	-	-	_	_	-	-	-		-		-	-	-	-			-	-		1 1	
	4 CHOLERA	-	-	-	1	-	-	-	-	-		-	-	-		-	-	-			-		·	-	-	-		
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A 11	7 SCARLET FEVER	-	-	-	-	-	-	-	-	_	_		-	-	-	-	-		-	-	-	-		-	Ĵ			
A 15	STREPTOGOCCAL SORE THROAT M	-			-	-	-	=	-	-	=	-	-	-	-	-	-	-			-	-	-	-	Ī	-		
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A 19	PERYSIPELAS	=	=	=	-	-	=	-	-	-	-	-	-	-	~	-	-	-	-	-	-	-	â	Ē	-	-	1 1	
A 20	SEPTICAEMIA AND PYAEMIA M	:	Ξ	Ξ	-	-	-	-	-	Ξ	-	2	-	-	-	- `		-			-	-		-	-	-		
A 21	DIPHTHERIA	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-		-	-		
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A 23	MENINGOCOCCAL INFECTIONS M F T	-	-	Ξ	Ē	-	-	-	-	-	-	-	-	-		i	-	-		-	-	-	-	-	â	-	3.3	
A 24	PLAGUE II	-	-	-	- 1	-	-	-	1	-	-	-	:	-	-		-	-	-	-	-	-	-	-	-		2 2	
A 25	LEPROSY	-	-	-	-		-	-		-		-	-	-	-	_		-			-		-	-	-	-		
A 26	T TETANUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-		
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A 28	ACUTE POLIONYELITIS II	-	=	-	-	-	Ξ	=	Ē	Ξ	-	-	=	Ē	-	-	-	-	-	-	-	-	-	-	Ē	-	ī :	
A 29	ACUTE ENCEPHALITIS	- 1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-		-	_		
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	LATE EFFECTS OF POLIO M MYELITIS AND ENGEPHALITIS F T	-	-	=	-	-	-	-	-	-	-	2	-	1		-		-	-		-	-	-	-	Ī	=	Ē Ē	
A 31	SMALLPOX H	=	=	Ĩ	-	-	=	-	-	-	Ξ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ī		
A 32	MEASLES M	=	-	3	-	-	-	-	Ē	1	-	1	-	-	-	2	-	:	-	-	-	-	-	-	-	-	: :	
A 33	YELLOW FEVER	_	_	-	_	-	-	-	_	-	-	-	-	-		-	ī	-	-	-	-	_	-	-				
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A 36	TYPHUS AND OTHER RICKETT- M SIAL DISEASES F	-	-	-	-	-	=	1	-	-	-	2	-	1	1	-	-	-	1	1	-	-	-	-	-	-		
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A 38	SCHESTOSOMIASES M F T	=	=	-	=	-	=	1	Ξ	-	Ē	-	=	Ē	1		-		1	:	-	=	=	-	-	=	Ī Ī	

TABLE 7
DEATHS BY CAUSE AND SEX, BY AGE, EDMONTON. 1967

LIST # CAUSE OF DEATH		-7 7	-27 AYS		TAL .	AG			4 5-	9 10	-14 15-			5-29 30	)-34 35	-39 40	-44 45	-49 50	AGE	5-59 60	)-64 65	-69 70	)~7 <b>4</b> 75	5-79 80	⊢84 8	35 N.S.	
LIST # CAUSE OF DEATH NO. INTERMEDIATE LIST # (SEVENTH REVISION) # 39 HYDATIO DISEASE	TOTAL	DAYS D	AYS -	ZYAC	-1	1 -	-	_	-	-	- 14 15	- 17 20	-	-	-	-	-	-	-	2		-	:	-	-		
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A 40 FILARIASIS # F	=	-	-	1	-	2	-	-	-	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	= =	
# 41 ANKYLOSTOMIASIS # F T	-		Ξ	-	Ξ	=	1	-	Ē	=	1	Ĩ	-	-	-	-	-	-	-	=	-	-	-	-	-	= =	
# 42 OTHER DISEASES   TO M HELMINTHS F	-	-	-	-	=	Ξ	=	-	Ē	-	-	=	3	-	-	-	1	Ē	=	3	-	-	Ē	-	-		
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II. MEOPLASMS.																											
MALIGNANT NEOPLASMS (A44-A59).  A 44 BUCCAL CAVITY PHARYNX M	10	- 1	-	-	-	2	=	-	1	-	-	=	=	ī	-	1	2	Ē	1 -	1 -	3	1	1 -	1	2	1 :	
II 45 DESOPHAGUS	13	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	1	-	Ē	2 ~	-	2	- 1	1 1	1 -	
# 46 STOMACH	9 28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	3	1 2	4	5	5 -	3 2	2	4 - 2 -	
F T A 47 INTESTINE, EXCEPT RECTUM H	8 36	-	-	- 3	-	-	-	-	-	-	-	-	-	-	î -	-	1	1	3	3	5	5	5	5	3	1 -	
f	19 25 44	=	-	-	=	3	-	-	-	=	-	=	1	-	-	-	1 -	5	1 -	1 2	2	7 2	13	6	6	5 -	
# 48 RECTUM # F T	16 7 23	=	Ē	=	=	-	-	Ī	-	Ξ	-	-	1	-	-	-	-	-	5 5	2	2	2	5	3	4	1 -	
# 49 LARYNX # F	1		-	-	-	=	-	=	=	=	=	-	=	-	-	=	-	Ξ.	- 1	=	-		1	=	2	= =	
A 50 TRACHEA, BRONCHUS, AND LUNG M NOT SPECIFIED AS SECONDARY F T	53 8 61	-	Ē	Ē	=	-	-	Ξ	-	Ξ	-	Ξ	Ē	=	-	=	1 1 2	2 2	1 3	9 2 11	18 2 20	6 - 8	5	1 6	1 4	8 8	
A 51 BREAST	35 35	-	-	=	Ē	=	=	=	Ξ	Ξ	Ξ	Ξ	=	Ē	=	2 2	3	- 5 5	6	11 8	2 2	2 2	=	4	1	2 -	
A 52 CERVIX UTERI F	8	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	t -	1 2	3 -	2	-	-	1 _	1		
A 53 UTERUS. OTHER PARTS	23	-	-	-	-	-	-	-	-	~	-	-	-	-	-	-	-	-	-	1	3	1	2	3 -	9	4 -	
# 55 SKIN # F T	4			-	Ē	-	=	-	Ē	Ξ	-	Ē	-	-	=	-	ĩ	-	Ī	1	-	1	Ξ	-	-	1 -	
A 56 BONE AND CONNECTIVE TISSUE M	2 2 4	-	-	-	-	Ē	-	Ē	Ē	Ē	-	1	1 1	-	-	1	-	-	-	1 1	Ē	Ē	Ē	-	Ē	3 3	
# 57 OTHER ### UNSPECIFIED SITES.																			,	,	,	3	4	3	1	2 -	
A DIGESTIVE ORGANS F	19 18 37	-	-	-	-	Ī	=	Ξ	=	Ē	3	1	-	Ē	=	-	1	2	1	3 5	3	6	2 7	2 5	3	3 -	
B RESPIRATORY ORGANS # # (160, 164, 165) # T	2 - 2	=======================================	-	=	=	-	=	Ī	Ē	Ē	=	-	-	-	-	Ē	Î	-	=	=	=	Ē	2	=	=		
C URIMARY ORGANS M (180, 181)	20 5 25	Ξ	-	-	-	=	=	-	-	Ē	-	Ē	~	-	-	1 -	1	3	2 - 2	2 - 2	1 1 2	5	1 -	2 - 2	3 1 4	2 -	
D BRAIN ME NERVOUS SYSTEM M	III 10 18	-	=	-	-	-	-	-	2	1	-	1 -	-	2	-	1	1 2	į	- 1	1 -	1	2	1	-	Ē	= =	
II OTHER H	12	-	-	=	-	-	-	-	-	-	-	-	1	-	-	-	3	- 3	- 4	i 4	1 2	-	1	3	4 2	1 -	
TOTAL (A57) M	28 40 61	-	-	-	-	-	-	_	-	1	-	1	1	- 2 1	-	1 1	2	, ,	3 5	6 7	5 4	9	9	8 6	8 5	5 -	
T T SS LEUKAEMIA AND ALEUKAEMIA W	61 122 9	-	-	-	-	-	-	1	-	1	-	3	1	3	- L	2	8	9	8	13	2 _	2	13	14 1	13	1 -	
F T	12	=	-		-	-	-	2	-	=	-	=		-	1	-	ı	-	-	-	S	3	t	1	-	1 -	
A 59 LYMPHATIC AND HARMATOPOIETIC SYSTEM.  A MODGKIN S (201)	5		-	: :		-	-	-	ī	-	-	_ 1		1 _	-	1 _	:	1 _	1	1	-	2	1	Ĭ	-	1 -	
B OTHER #	7	-	-	 	-	-	-	-	-	1	-	1 -	-	1	-	1 -	-	1	-	1	- -	1 2	1 2	3	-	2 -	
TOTAL (A59) M	14 14		=			-		-		1	-	-	-	-	-	1	-	1	1	1	î -	1	3	3	-	3 -	
F T TOTAL (A44-A59) M	21	-			-	-	-	1	-	1 2	-	1 2	- 3	L 3	1	1 2	7	1 4	1	1 23	40	3	3 36	30	29	3 -	
F	175 421	-	-		=		-	2		3	-	3 5	3	4	3 4	6	19	16 20	17 28	23 46	13 53	20 51	15 51	18	16	12 -	
A 60 BENTON AND UMSPECIFIED M F T	1				- 1		-	=	=	1	=	-	-		-	-	-	-	1	-	î	-	-	-	-	1 -	
TOTAL (A44-A60) II F	248 177 429	8 – 7 – 5 –	3	: :	Ē	Ē	Ē	1 1 2	-	2 2 4	=	2 3 5	3	3 1 4	1 3 4	2 4 6	7 12 19	16 20	11 18 29	23 23 46	41 13 54	31 20 51	36 15 51	30	29 115 45	22 - 12 - 34 -	
III. IV. ALLERGIC, ENDOCATME, METABOLIC AND BLOOD DISEASES.																											
# 61 NON-TOXIC GOITRE # F T	:	1	:	: :	Ξ	=	-	Ē		-	-	Ē	-	-	-	-	-	-	=	Ē	=	Ξ	=	=	× Ξ	= =	
# 62 THYROTOXICOSIS M		: :	:		=	-		Ē	-	=	Ē	-	1	Ē	-	-		-	=	-	=	Ē	-	=	=	= =	
A 63 DIABETES MELLITUS	1 2 3				1	=	-	-	- 3	-	-	=	1		=	3	:	1 1	1 1	3	1 3 4	1 1 2	3 4 7	1 5 6	1 3	4 - E - 7 -	
A 64 NUTRITIONAL DEFICIENCY M STATES F		1 -				-	-	-	-	-	-	-	-	-	-	:	:	-	:	1	-	-	=	-	-	= =	
II 65 ANAEMTAS		1 -		- :		-	-	-	_	_	_	_	_		-	5	-	_	-	1	-	z	-	-	1		
A 66 OTHER				] [		- 1	-		1	-	-	-	1	-	1	-	:		-	1	-	1	1	-	1 1	: :	
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1	2 2 9	10 -		- 1	i	-	-	Ξ	Ξ	:	Ξ	=	i	Ξ	1	Ξ	:	1	1 2	:	3	i	:	:	•	1 :	
V. RENTAL, TTO		,																									
A 67 PSYCHOSES # F		2 -		-	= =	Ē	Ī	=	Ē	-	=	Ē	-	=	Ē	1	Ē	-	-	Ξ	i z	=	-	=	=	E :	

TABLE 7
DEATHS BY CAUSE AND SEX, BY AGE, EDMONTON, 1967

LIST A CAUSE OF DEATH NO. INTERMEDIATE LIST II (SEVENTH REVISION)	TOTAL	-7 DAYS	7-27 :	e to	TAL	1	IE 2	,	4	5-9 1:	0-14 1	1-19 2	0-24 25	1-29 30	-34 36	30 40			4GE							
(SEVENTH REVISION)	6	_	_	_				_	_		- 14 1:	3-14 5	0-24 2	-29 30	-34 35	-39 40	-44 45	- 49 50	)-54 51	5-59 6	0-64 6	5-69 7	0-74 7	5-79 8	10-84	85 N.S.
LITY DISORDERS F		Ξ	=	=	-	=	-	-	-	-	-	-	-	1	1	-	5	1	-	-	Ē	-	-	=	-	1 -
A 69 MENTAL DEFICIENCY M F T	-	=	-	-	Ē	=	-	-	-	-	-	-	=	-	-	-	-		-	-	1	-	-		-	= =
TOTAL (A67-A69) II F	7 2	Ξ	-	-	-	Ξ	:	2	-	-	-	-	Ξ	i -	-	i	2	à .	-	l.	1 1	-	-	-	-	1 -
VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS.		_	-	-	-	-	•	-	-	•	-	-	-	1	-	1		1	-	1	2	-	-	-	-	t -
A 70 CEREBROVASCULAR LESIONS M	89	_	_	_		_	_																			
Ę.	94 183	-	-	-	-	Ξ	-	-	Ī	1	-	-	1	-	2	-	1	1	3 5 8	2	6 11 19	10 III	7 11 18	17 15 32	21 24 45	16 - 15 - 31 -
A 71 NON-MENINGOCOCCAL III MENINGITIS F T	1 2	Ē	=	=	-	-	-	1	-	-	-	-	-	-	1	3	-	-	:	-	-	-	-	1 1	-	1 1
A 72 MULTIPLE SCLEROSIS M	1 4	=	=	-	-	2	Ē	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	
A 73 EPILEPSY	3	_	_	-	_	_	-	-	-	-	-	1	_	_	-	1 2	1	-	1 -	1	i -	-	-	-	-	
T A 74 INFLAMMATORY DISEASES DF N	5		=	-	-	=	-	-	-	Î	-	ī	=	-	-	5	-		-	1	-	1	-	-	-	1 1
THE EYE F	2	=	-	-	-	Ξ	Ē	Ē	Ē	-	-	-	Ē	-	-	-	-	-	Î	-	-	-	-	-	-	Ē Ē
A 75 CATARACT II F	=	Ξ.	-	3	-	-	-	-	-		-	-	Ē	-	1	-	-	-	:	-	1	-	-	-	-	I I
A 76 GLAUCOMA	-	Ē	-	Ī	-	-	2	-	-	-	-	-	-	-		-	:		-	~	-	-	1	1	1	1 1
A 77 OTITIS MEDIA AND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MASTOIDITIS F T II 78 OTHER	1 1		-	-	-	-	-	-	-	-	-	-	-	1	-	-		-	-	1	-	-	-	-	-	: :
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TOTAL (A70-A78) M F T	103 108 211	3	-	-	-	:	-	1 1	Ξ	1 1	1	1	1 1	-	3 1 4	1 3	2 1 3	2 2	4 7 11	5 4 9	9 12 21	11 10 21	9 11 20	20 15 35	21 25 46	16 - 15 - 31 -
VII. DISEASES OF THE CIRCULATORY SYSTEM.																										
HEART DISEASE (A79-A83).																										
A 79 RHEUMATIC FEVER	-	=	-	=	=	-	-	-	=	=	Ē	-	-	-	=	-	-	-	-	-	=	-	-	Ē	-	3.3
B 80 CHRONIC RHEUMATIC M F	7 14 21	=	-	-	-	-	-	-	=	-	-	-	-	-	-	-	3	1	2	1 2	2 4	1	1 1 2	2	1 -	: :
A B1 ARTERIOSCLEROTIC AND W DEGENERATIVE	453	_	-	-	-	-	-	-	-	-	-	-	1	-	1	1 _	II 2	1.6	39	46	41 16	59	69 27 96	69 37	49 39	52 - 47 - 99 -
A 82 OTHER M	194 647	_	-	-	-	-	-	-	-	-	-	-	1 -	-	1	1 -	10	18	42	51	16 57	16 77 3	96 I	106	7	47 - 99 - 5 -
F	17 35		-	-	-	Ξ	-	-	-	=	1	-	=	1	1	1	-	1	-	4	2	3	2	3	1 8	3 -
# 83 HYPERTENSIVE # F	11 15 26	=	-	-	-	=	-	=	-	-		-	-	-	-	-	1		-	2 - 2	1 2	1 3	1 3	1 3 4	5	2 - 5 - 7 -
TOTAL (A79-A83) M	489 240 729	=	-	Ξ	-	3	-		-	-	į,	ê	1 -	Ĭ	1 1	1 1 2	# 5 13	19   20	4 L 4	49 10 59	44 23 67	64 20 84	73 30 103	71 44 115	58 44 102	59 - 55 -
A 84 HYPERTENSION M	7		-	-	-	Ē	-	-	-	-	-	-	-	-		-	-	:	1	-	ī	l.	į.	2	1	1 -
A 85 ARTERIAL DISEASES	10		-	-	-	_	-	-	-	-	-	_	_	-	-	-	-	-	1	1	1 2	1	2	2	2	6 -
F T	29 28 57	Ξ	Ē	-	-	-	-	-	-	-	- 1	-	=	-	1	-	-	-	2	1	ĩ	i	8	15	9	10 -
A 86 OTHER M F	12 9 21		-	-	-	=	-	Ē	-	-	-	-	-	-	-	1	1	2 2	1	-	2 2 4	1 1 2	1 3	1	1 4	1 - 1 - 2 -
TOTAL (A79-A86) M	537 280 817		Ξ	Ξ	1	Ξ	1	-	-	-	1	-	1	ĩ	1 2	1 2	8 = 14	21 II 22	42 7 49	50 10 60	48 26 74	69 21 90	36 116	83 50 133	51 117	67 - 66 - 133 -
T  VIII. DISEASES OF THE RESPIRATORY SYSTEM.	817	-	-	-	-	-	-	-	-	•	1	-	1		,	,	14	**	**							
A 87 ACUTE UPPER RESPIRATORY H	3	- 1	-	-	-	1	1	-	-	-	-	Ē	-	-	-	-	3	1	-	-	-	-	-	-	-	-
A 88 INFLUENZA	4	=	-	î -	i -	1 -	1 -	-	-	-	-	-	_	-	-	-	-	1	-	-	-	_	-	-	-	
F	1	-	-	Ξ	-	Ξ	-	-	=	-	-	-	=	-	-	-	-	-	-	-	-	-	-	-	-	
PNEUMONIA (489-491).  A 89 LOBAR	5	-	_	1	ı	-		_	-		-	-	-		-	-	1		1	-	-	-	1	-	1 -	ī -
F	7	=	-	1	1	=	-	-	-	-	-	-	1	-	-	-	1 -	-	l L	1 -	-	-	1 2	- 2	1	6 -
A 90 BRONCHO F	16 25 41	Ξ		1 3	1 3	= =			1	-		-	1	-	-	-	1	-	1		-	1	4	4	6	6 - 13 - 19 -
A 91 ATYPICAL, DTHER, M UNSPECIFIED F	1 8 7 25	-	-	4 8	4 6	=	-	-	-		-	Ē	-	1 - 1	=	1	-	-	1	1	-	-	-	1	1 4	6 - 2 - 8 -
TOTAL (A89-A91)	39 34 73		-	7 5 12	7 5 12	-	-	-	l T	-	-	-	1 1	1 -	-	1 -	1 1 2	-	3 -	1 2	-	1 1	3 2 5	3 2 5	5 6 11	12 - 16 - 28 -
BRONCHITIS (A92, A93).	73	-	-	12	12				1																	
A 92 ACUTE M F	1	=	-	1	Ť	-	-	-	Ξ	Ē	Î	=	Ē	į	Ē	-	Ē	į	Ē	-	-	-		-	-	I I
A 93 CHRONIC AND UNQUALIFIED M	12	-	-	-	Ė	-	-	-	-	i	-	Ē	-	-	-	-	Ē	-	-	1 - 1	1 - 1	2 - 2	# - 1	3 -	1 1 2	3 - 1 - 4 -
TOTAL (A92, A93) H	14		-	-	-	-	_	-	-	-	-	-	-		-	-	-	-	-	1	1	2	1	3	1    2	3 -
F <sub>T</sub>	15	-		1	1	1	-	3	-	-	-		-		-		-	-	-	1 -	î -	2	1 -	3	2	
# 94 TONSILS AND ADENDIDS M F				=	-		-	-	Ē	=	=	=	=		-	-	-		-	Ξ	Ē	-	-	-	-	- 1 1
A 95 EMPYEMA AND LUNG ABSCESS M		: :	-	-	-	-	-	=	-	Ξ	-	Ē	-	Ē	1	Ē	=	-	-	=	Ē	-	-		=	Ē .
A 96 PLEURISY				-	-		-	-	-	=	-	-	-	-	-	-	-	Ē	-	-	=	-	-	-	-	: :
A 97 OTHER	30		-	- 1	- 1	-	-	-	-	-	-	-	-	-	-	1	1	1	2	2 3 5	*	3	2	5 2	5 1 6	3 - 3 - 6 -
Ę.	30 11 41		=	1	1	-	- 1		- L	-			1	1	_	1 2	2	1 2	3 5 1	5	5	9	3	7 11 4	11 0	
TOYAL (A87-A97) # F T	#1 131	=	-	0 7 15	15	-	1	=	i	=	=	Ē	1	ī	-	2	3	2	6	i	9	1		15	119	10 - 20 - 36 -
IX. DISEASES OF THE DIGESTIVE SYSTEM.																										
A 98 DISEASES OF THE TEETH M		: :		-		Ē	Ē	-	=		-	=		-	-	=	-	-	Ī	-	-	-	3	=	=	
A 99 ULCER OF THE STOMACH M		3 -		Ē	=	-	-	-	Ξ	-	Ē	-	i	-	-	-	-	-	-	-	Ē	Ē	-	1	1 - 1	1 -
A 100 ULCER OF THE DUDDENUM	:	6 -	_	=	-	-	-	=	=	-	=	-	Ē	-	Ī	2	1	-	i.	1 - 1	1 1	1	l I	1	-	2 - 3 - 5 -
T TOO OLDER OF THE DOGGEROUS STEEL	1	4 -	Ξ	=	Ξ	=	-	Ī	-	-	-	-	-							1		1				

## TABLE 7 DEATHS BY CAUSE AND SEX, BY AGE, EDMONTON, 1967

LIST E CAUSE OF DEATH	TOTAL	-7 DAYS	7-27 DAYS	28 T	OTAL -1	1	A GE	3	٠	5-9	10-14	15-19	20-24 2	5-29	30-34	15-39 4	10-44 4	5-49 5(	AGE 0-54 5	15-59 6	0-64 6	15-69	<b>7</b> 0-74 1	rs-79 ao	-84	<b>0</b> 5 N.S.
(SEVENTH REVISION)  # LOT GASTRITIS DUODENITIS II	-	-	-	-	-	-	-	-	=	=	-	-	=	-	-	-	-	-	-	=	-	-	=	-	-	: :
T II 102 APPENDICITIS M	- L	= =	5	1	-	1	1		=	-	-	-	-	-	-	-	-	-	-	-		-	-	1	-	1 1
# 103 INTESTINAL DESTRUCTION AND M HERNIA F	4	1 7	-	-	1 -	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	2	- 2	1 1	-	: :
A 104 GASTRO-ENTERITIS AND M COLITIS	3 7 10	1	-	=	1	-	-	=	=	-	=	-	=	=	=	-	=	- 2	-	-	-	1	1 -	1 1 2	1 -	1 -
# 105 CIRRHOSIS OF LIVER M	10 12 22	=		-	-	Ī	-	-	=	-	-	-	=	-	3	1	-	1 2 3	1 1 2	3 6	2 1 3	2 -	-	-	-	1 -
# 106 CHOLELITHIASIS AND CHOLECY- M STITIS F	4 5 9	Ē	=	Ξ,	=	=	-	-	=	Ξ	Ē		Ē	-	=	-	-	1	î l	=	-	-	1 -	2 2 4	1	1 -
A 107 OTHER M F	1 5	Ē	-	=	-	-	-	=	Ξ	Ē	Ē	-	Ē	-	-	Ē	Ē	Ē	į	2 - 2	Ē	-	=	1 1 2	1 -	
TOTAL (A98-A107) W	35 33 68	1 1	-	Ξ	1 - 1	-		=	Ē	1 1	Ξ	ī l	Ξ	Ē	3 3	- 1 1	Ξ	1 5 6	2 2 4	6 4 10	3	4 II 7	3 2 5	7 5 12	4 -	1 :
N. DISEASES IN GENITO- URINARY SYSTEM.																										
# 108 ACUTE NEPHRITIS M F T	1	-	-		Ē	Ĩ	Ē		-	=	-	Ē	-	-	Ī	-		-	=	Ē	1 1	-	=	=	-	= =
■ 109 CHRONIC AND OTHER NEPHRITIS M F T	4 5 9	=	=	-	Ē	Ē	Ê	Ē	Ξ	Ξ	-	-	=	-	-	1 1	Ē	1	- 2 2	1 1	-	5 - 5	1 1 2	-	-	
I 110 IMPECTIONS OF KIDNEY M F T	3 4 7	=	-	1	Ξ	Ξ	Ē	Ī	Ξ	Ĩ	=	-	1 1	-	Ĩ	Ē	Ī	1 1	1	=	į	1 1	1 1	-	3	Ē Ē
# 111 CALCUL1 # F T	2 2 4	-	Ξ	Ē	Ξ	Ξ	Ī	Ē	Ē	Ē	=	Ξ	=	-	Ē	Ē	Ī	Ξ	-	=	1 1	1	1	-	1 1	3 5
# 112 HYPERPLASIA OF PROSTATE # A 113 BREAST	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 -	
A 114 OTHER H	- 3 2		-		-	-	-		-	-		=	-	-	= =	= =	= = =	-	-	1	-	-	1	-	-	1 -
TOTAL (A108-A114) M	14 13 27	-	-		-	-	-	=	=	=	= =		î -	-	= = =			1	-	1	1	- 2	3	= =	5	1 -
XI. COMPLICATIONS OF PREG- MANCY, CHILDSIRTH,	27	-	-	-	-	-	-	-	-	-	-	-	2	-	-	î	-	2	2	ž	2	4	6	-	5	1,-
A 115 SEPSIS F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 117 HAEMDRRHAGE F A 118 ABORTION MITHOUT SEPSIS OR F TOXAEMIA	1 -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 -	-	-	-	-	-	-	-	-	-	
A 119 ABORTION WITH SEPSIS F	-	~	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTAL (All5-Al20) F		-	-	-	-	-	-	-	-	-	-	-	1	-	-	i	-	-	-	-	-	-	-	-	-	
XII. XIII. DISEASES OF THE SKIN AND MUSCULDSKELETAL SYSTEM.																										
# 121 SKIN INFECTIONS # F	1 1	=	Ē	Ē	Ē	-	=	Ē	Ξ	Ē	Ē	-	-	-	3	Ē	-	Ē	Ē	Ξ	-	Ξ	-	Ē	1 - 1	E E
A 122 ARTHRITIS AND SPONDYLITIS M F T	3 II 5	Ξ	Ē	=	Ξ	Ē	-	=	=	Ē	Ē	Ē	1	- 1 1	-	=	:	1 - 1	-	=	Ē	Ē	1 1	Ē	1	1 -
A 123 RHEUMATISM M F T	Ē	Ē	Ξ	-	-	Ē	-	Ē	Ē	-	-	Ē	Ē	-		Ē	-	-	Ē	=	-	Ξ	=	-	-	E E
# 124 OSTEOMYELITIS	=	=	Ē	-	=	-	-	-	-	=	Ē	=	Ī	-	-	Ξ	Ē	Ē	Ē	Ē	-	-	Ξ	1	-	3 3
A 125 ANKYLOSIS AND ACQUIRED M DEFORMITIES F	Î	Ē	Ē	Ē	=	=	-	Ē	Ξ	=	Ē	Ī	Ξ	Ē	-	=	-	-	1	=	Ē	Ē	Ξ	Ξ	Ē	E E
A 126 OTHER M F T	3 1 4	-	Ξ	=	Ē	=	-	Ī	Ē	Ξ	1	-	1 1	- t	Ē	Ē	-	=	=	Ξ	-	:	-	Ē	1 ~	= =
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MALFORMATIONS.  A 127 SPINA BIFIDA AND MENINGOCELE.																										
A MITHOUT HYDROCEPHALUS M F T	1 -	Ē	Ē	- 3	=	Ē	=	-	-	1 - 1	Ē	Ξ	-	-	Ē	Ē	-	1	-	-	-	-	Ē	-	:	: :
WITH HYDROCEPHALUS M F T	Ē	-	-	=	Ē	=	-	=	-	Ē	-	=	-	-	=	-	-	-	-	=	-	-	-	-	-	
TOTAL (A127) H F T	1 - 1	-	=	-	=	Ξ	Ē	Ξ	3	1 - 1	Ξ	î	-	-		-	-	į	=	-	-	ī	-	-	-	
# 128 CIRCULATORY SYSTEM M F T	10 13 23	II 1 3	1 2 11	2 7 9	5 10 15	1 - 1	1 - 1	1 1	2 1 3	1 1	-	-	-	Ē	-	-	-	-	=	- 1	Ξ	-	-	=	-	
A 129 OTHER	5 3 8	2 1 3	Ξ	2 2	4 3 7	Ē	-	-	Ē	-	1 -	-	Ē	-	-	-	-	-	-	1	-	-	-	-	-	= =
TOTAL (A127-A129) R	16 16 32	4 2 6	1 2 3	4 9 13	9 13 22	1	1	1	2	1 2	1	-	=	=	=	=	-	=	=	ĩ	-	-	-	-	-	
AV. DISEASES OF EARLY ENFANCY.										*												-		-		
# 130 BIRTH INJURY	5 6 11	11	=	Ē	5 6 11	Ξ	Ē	Ξ	Ī	=	Ξ	-	Ē	-	=	Ξ	Ē	-	Ē	Ξ	Ē	-	=	2	Ē	E E
A 131 POSTNATAL ASPHYXIA AND H ATELECTASIS F T	14 8 22	14 7 21	Ξ	- 1 1	14 8 22	Ē	-	-	Ē	Ē	-	Ē	Ē	1	=	Ē	-	Ē	-	Ē	=	=	-	-	Ē	
II 132 INFECTIONS OF NEWBORN M F T	3 - 3	2 - 2	1 - I	=	3 - 3	Ξ	Ē	Ξ	Ē	Ē	Ξ	=	-	-	Ē	=	Ē	-	=	=	-	-	-	-	=	: :
II 133 ERYTHROBLASTOSIS H F T	2 2 4	2 2 4	-	3	2 2 4	Ē	-	-	Ē	Ξ	Ē	2	Ē	-	Ē	Ē	Ē	-	=	-	1	-		-	-	
A 134 OTHER DEFINED	1	1 2 II	Ē	:	II 2 3	Ē	Ξ	Ē	Ī	Ē	Ē	=	-	-	=	-	-	-	-	=	-	-	-	-	-	

TABLE 7

DEATHS BY CAUSE AND SEX, BY AGE, EDMONTON, 1967

LIST A CAUSE OF DEATH NO. INTERNEDIATE LIST III (SEVENTH REVISION)	TOTAL	-7 7 DAYS D	-27 III AYS D	TO PAYS	TAL -1	A G		3	4 5	⊢9 10	≻14 1f	<b>-19</b> 20	r-24 25	-29 30	)-34 35	i-39 40	-44 45	-49 50	AGE	1-59 61	)-64 65	i-69 70	-74 75	-79 🖩		15 N.S.
A 135 ILL-DEFINED	18 21 39	17 19 36	- 2 2	1_	18 21 39	-	ī	-	-	-	-	-	-	-	-	-		_	-	-	-	-	_	-	_	
TOTAL (A130-A135) II	39 43 39 82	36 41 36 77	1 2	1 1	39 43 39 82	-	-	-	5	1	_	-	-	-	-	-	1	-	-	1	-	-	-	1	1	
RYI. SYMPTOMS, SENILITY AND ILL-DEFINED CONDITIONS.	82	77		1	02	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	Ξ.	-	1 1
A 136 SENILITY WITHOUT PSYCHOSIS # F	10	Ξ	Ξ	-	-	-	Ē	-	į.	-	2	-	-	ī	-	-	-	-	ī	ī	-	-	-	1 1	2	7 - 2 - 9 -
A 137 ILL-DEFINED AND UNKNOWN M	19 5 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 1	-	-	2 -	1	2	-	-
TOTAL (A136, A137) M	7 15 11 26	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2 L	-	-	2	1	1	2	1:
XVII. ACCIDENTS, PDISONINGS  WILL VIOLENCE.	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	i	-	2	-	-	2	2	3	í	
EXVII. EXTERNAL CAUSE. AE 138 MOTOR VEHICLE ACCIDENTS.																										
A TRAFFIC (810-825) M	60 24	_	_	_	-	_	_	_	1	1	2	3	18		7	6	2	4	4	2	_		2	_	_	1 -
F T 8 NON-TRAFFIC	24 84		2	-	-	-	-	=	1 2	1	2	li 9	20	7	1 0	1 7	3 5	6	4	1 3	1	3 4	2	-	2	1 :
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AE 139 OTHER TRANSPORT ACCIDENTS.  A DROWNINGS INVOLVING SMALL M BOATS (850)	ı	_	_	-		_	-	-	_	-	-	-	-	1							-	-	_	-	-	
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8 DROWNINGS INVOLVING OTHER H MATERCRAFT (851) T C DIMER TRANSPORT	=	-	-		-	-	-	1	-	=	-	-	-			-	-		-	-	-	-	-	-	-	
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TOTAL (AE139) # F T	5	=	=	-	Ē	Ē	=	-	-	-	-	Ē	Ē	1			1		Î	Ē	Ĩ	3	1	Ē	-	
AE 140 ACCIDENTAL POISONING M F T	# 5 13	=	Î	-	-	-	-	-	-	Ξ	Ē	-	1	Î	1	1 2 3	2 1 3	Î 1	1	-	5 5	-	-	-	-	: :
AE 141 ACCIDENTAL FALLS M F T	21 13 34	-	Ē	1 1	1	=	-	Ē	-	Ē	1 - 1	1	-		2 - 2	1	-		3	3 i 4	1 1 2	4	1 - 1	1 1	2 5 7	2 - 4 - 6 -
AE 142 ACCIDENT CAUSED BY	5	-	-	-	Ē	Ē	1	3	3	=	-	1	-		1	1	1 - 1			1 1	-	-	-	-	-	= 1
AE 143 ACCIDENT CAUSED BY FIRE AND M EXPLOSION F	9	2	-	-	-	-	1	į.	-	2	-	-	Ē		1 -		2	1 -		1 -	-	ž	5	Ξ	-	: :
AE 144 OTHER ACCIDENTAL BURNS M	10	-	1	-	-	-	-	-	-	2	-	-	-	-	1	1	-	-	:	1	-	-	-	-	-	1 -
AE 145 ACCIDENT CAUSED BY FIREARM M	2	-	-	-	-	-	-	-	- 5	1	-	1	-	-	-	-			-	-	-	-	-	-	-	
AE 146 ACCIDENTAL DROWNING M	2	-	-	=	-	-	-	-	-	1 -	-	1 2	-	-	1	-	-		-	-	-	-	-	-	-	
F	3 6	-	-	1	=	1	-	-	-	-	1	2	-	-	ī	-	1	-	-	-			-	-		
AE 147 ALL OTHER ACCIDENTAL CAUSES M F T	13 2 15	-	-	3 1 4	3 1 4	Ī.,	-	-	-	2 2	2 2	1 1	1 2	1	1	Ē	1		-	Ē	1		1	-	-	3 -
TOTAL (AE138-AE147) M F T	126 50 176	-	-	3 2 5	3 2 5	1 1	Ī	-	1 1 2	6	5 II 7	11 7 15	19 4 23	7 1 8	16 1 17	10 II 13	9 6 15	5 3 8	- 11	2 9	2	3 8	6	1	7 9	5 -
AE 148 SUICIDE H	22 10 32	-	-	-	- 3	-	Ē	-	-	-	-	- 1	4 1 5	- I 1	-	3 1 4	5 2 7	ii 3 5	l 2 3	3 - 1	i	1	-	-	-	1 -
AE 149 HOMICIDE	1 4 5	=	-	Ē	-		Ē	-	-	- 1	- 1 1	- 1 1	=	-	1 1 2	Ê	-	Ē	-	Ē	Ē	-	-	Ē	-	: :
AE 150 WAR INJURIES	-	-	-	-	Ē	-	-	-	-	Ē	3	-	-	-	-	-	Ē	-	-	Ē	Ē	Ē	-	-	-	: :
TOTAL (AE138-AE150) M	149 64 213		-	3 2	II 2	- 1	-	=	1 1	6	5	II II 16	23 II 28	7 2	17 2 19	13 4 17	14 8 22	7 6 13	10 II 12	10 II 12	11 2 8	3	6 - 6	- 1	2 7 III	4 ~ 5 - 9 -
T HXVII. MATURE OF INJURY.	213	-	-	5			-	-		,	0	10	20	Ť								2				1 -
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AN 139 FRACTURE OF SPINE AND TRUNK M. F. T.	8 2 10	-	Ī	1	Ē			-	1	=	-	1 - 1	3 - 3	-	2 - 2	-	1	1	Ē	Ξ	-	1 2	Ē	1	Ē	
AN 140 FRACTURE OF LIMBS M. F.	6	1	Ē	-	=	-	-	-	Ē	Ξ	=	=	1 - 1	Ē	Ē	Ē	1 1	1	-	-	-	-	Ē	1	7 9	2 - 4 - 6 -
AN 141 DISLOCATION WITHOUT M FRACTURE F	19	=		-	Ē	Ē	=	-	Ē	-	-	Ξ	Ē	Ē	-	-	-	-	-	-	Ξ	=	Ē	-	=	= =
AN 142 SPRAINS AND STRAINS II			-	-		Ē	-	-	Ē	-	-	-	-	-	-	Ē	1	Ē	Ē	-	Ē	-	Ē	-	-	1 1
AN 143 DTHER HEAD INJURY	23	-	-	_	-		-	-	-	-	-	- 2 ii	1	II L 3	3	2	3 - 3	1 -	II - 2	3 1 4	l l	2 - 2	2 - 2	-		1 1
AN 144 INTERNAL INJURY	25		_				-	-	1	-	2 1 3	2	7 - 7	2	5 1	3	1	2 - 2	3	3 1 4	_     	-	<u> </u>	1	-	1 1
AN 145 OPEN HOUNDS	34 11 45			1 1	1	-	-	-	2	-	1	1	ı			1 -	i	-	- 1	-	-	-	÷	2	-	1 1
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AN 146 SUPERFICIAL INJURY OR # CONTUSION F			-		3	=	- 1	-	-	- 1	-	1	-	-	-	- I	2	-	-	-	-	-	-	-	-	 
AN 147 FOREIGN BODY THROUGH M ORIFICE F		, -	=	3	3		Ξ	- 1	-	1 2	-	ī	- 2	-	- 1	1	2	÷,	-		=	-	1	-		
AN 148 BURNS M F T	1	3 ~		=	=	Ē	Ī	=	Ē	2			3	-	ī	1 2	3	1	- 2	-	-	-	1	-	-	10 -
AN 149 POISONINGS H F T	1: 1: 3:	6 - 4 - 0 -	-	Ē	Ē	Ē	Ē	-	Ē	1	î î	-	2 4	-	1	5	2	3 4	2 4	1	î 1	1	1	-	i	
AN 150 OTHER # F	1.	7 -	100	- 1 1	- 1 1	1 1	Ξ	-	-	1	1 1	2	1	1 2	3	5	2 2	1 2	1	1	ī	1	1	-		1 1
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ALL CAUSES #	1.29	3 46	2 4	18 19 37	-	3	2 -	2 2 4	i	9 7 16	7 5 12	11 12 23	29 11 40	13 II 10	23 13 36	21 15 36	35 29 64	39 32 71	76 42 118	102 52 194	117 60 177	135 63 198	149 75 224	156 254	115 263	146 - 129 - 275 -
; ;	82 2,12	2 84		37	127																					

## DIVISION OF VITAL STATISTICS

# TABLE 8 DEATHS BY CAUSE AND SEX, BY AGE, CALGARY, 1967

LIST NO.	( SEASHIM MEAISTON)	TOTAL	-7 DAYS	7-27 DAYS	28 DAYS	TOTAL -1	1	AGE 2	3	4	5-9	10-14	15-19	20~24	25-29	30-34	35-39	40-44	45-49 !	AGE 50-54 5	5~59 (	50~64	65-69 1	70-74 7	5-79 8	0-84	89 N.S.
	DISEASES.																										
A	TUBERCULOSIS (A1-A5).  RESPIRATORY.																										
	ACTIVE M F T	4			-	= =	=	Ξ	=	=	Ξ	-	-	-	Ē	-	Ξ	-	-	-	-	-	-	2 - 2	-	1 1	1 -
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	T SYPHIL IS (A6-A10).	*			-		-		-	-	_	-	-	-	-	-	~	-	•	-	-	-	-	2	Ī	1	1 -
	6 CONGENITAL M F T	-		: :		: :	=	=	Ē	-	Ξ	Ē	Ξ	Ξ	=	-	-	-	-	Ē	Ξ	Ξ	=	-	-	-	ΞΞ
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ii 1	O OTHERS M	3		: :		: :		: :	=	=	-	-	=	-	:	:	-	-	-	-	1	-	=	-	2 -	-	: :
	TOTAL (A6-A10)	3		- :	-				-	2	-	-	-	-	=	=	-	-	-	-	1	=	=	-	2 -	=	: :
A 1	1 GONDCOCCAL INFECTION M	3 - -		- :	-			: :	-	-	=	-	-	-	-	-	-	-	=	-	1	=	-	-		=	= =
A 1	2 TYPHOID H			- : - :	-				-	-	-	-		-	-	2		-	-	-	-	-	-	-	-	-	: :
A 1	3 PARATYPHOID AND OTHER # F	-		- :	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A 1	4 CHOLERA M	-		- :	-			-	-	-	-	-	-		-	-			-	-	-		-	=	-	-	
1 1	5 BRUCELLOSES	-		- :	-			-	-	=	-	-	-	-	-		=	-	-	-	-	-	=	-	-	-	: :
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A 1	8 STREPTOCOCCAL SORE THROAT M F T	Ξ		Ξ :	-	= =		: :	Ē	Ξ	Ξ	Ξ	Ē	Ē	=	Ξ	Ξ	=	Ē	-	-	=	=	5	Ξ	-	Ē Ē
# 1	9 ERYSIPELAS	=		= :	-	]			3	-	-	=	Ē	Ē	=	=	=	=	-	=	=	Ξ	-	=	Ξ	-	= =
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A 2	27 ANTHRAX	-		-	-				_ =	=	=	-	-	-	-	-	-	-	-	:	=	2	=	=	=	-	1 1
A 2	TO ACUTE POLIDMYELITIS M	=				= =		: :	-	2	=	=	-	-	-	-	-		-	-	=	-	-	-	-	:	: :
	T 29 ACUTE ENCEPHALITIS H	1		_					-	-	-	-	-	=	-	-	-	-	-		-	:	-	-	1	-	: :
	DO LATE EFFECTS OF POLIO M MYELITIS AND ENCEPHALITIS F	:		-	-	: :			-	-	-	-	-	-	_	-	-	-	1	-	-	-	-	=	1	-	= =
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	32 MEASLES	:		-	-				-	-	- -	_	=	_	-	-	-	=	-	-	-	-	-	-	-	-	
	33 YELLOW FEVER	1			-				-	-	-	-	-		1	-	=	-		=	-	-	=	-	-	=	
	T 34 INFECTIOUS HEPATITIS H	-		-					-	-	-		=	-	-	-	-	-	=	-	-	-	-	_	-	-	= =
	F T T 35 RABIES	:		-	=			: :	=		-	_	=	=		1	-	-	-	-	-	-	-	=	-	-	1 1
	F T 36 TYPHUS AND OTHER RICKETT- M	:		-			-		=	_	-	=	=	-	-		-	=	-	-	=	-	=	-	2	-	1 1
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	T SCHISTOSOMIASIS	=		-	-				=	3	-	-	=	=	-	-	-	Ē	=	-	=	-	-	-	=	Ξ	
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TABLE 8

DEATHS BY CAUSE AND SEX, BY AGE, CALGARY, 1967

LIST II CAUSE OF DEATH NO. INTERMEDIATE LIST II (SEVENTH REVISION)	TOTAL	-7 DAYS	7-27 DAYS	28 DAYS	TOTAL	ι	AGE 2	3		5-9	10-14	15-19		25.00					AGE							
A 39 HYDATID DISEASE	-	-	-	-	_			1	_	7-9	10-14	19-19	20-24	25-29	30-34	35-39 4	0-44 4	5-49	50~54	55-59 6	0-64	65-69	70-74	75-79	80-84	85 N.S.
A 40 FILARIASIS	-	-	-		=	-	-	-	1	-	-	- 2		=	-	-	-	-	-	-	=	-		-	-	
F T	=	-	-	-	-		-		=	-	-		Ē	-	-	-	-	Ē	-	Ē	-		Ē			- : :
A 41 ANKYLOSTOMIASIS M F T	-	=	-		-	Ē	Ē	-	-	-	-	-		-	-	-	-	-	-	-	3	-	-	-	-	1:
A 42 OTHER DISEASES DUE TO M HELMINTHS F	-	=	-	-	-	-	1	-	Ξ	-	Ē	1	-	-	-	-	:	-	-	-	-		-	-	-	
A 43 OTHER M	-1	-	-	-	_	-		-	-	1	-	-	-		-	-	-	_	-	-	-	-	-	-		
TOTAL (A1-A43) M	9	_	_	1	1	-	-	-	-	-	-			-	-	-	-	-		1	-	-	-	-	-	1 1
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MALIGNANT NEDPLASMS (444-459).																										
A 44 BUCCAL CAVITY AND PHARYNX M F T	5 1 6		=		-	-	-	-	-	-	-	-	Ē	-	-	1	-	1 1 2	- 1	1 -	Ē		-	1		1 =
A 45 DESOPHAGUS	3 2 5	Ē	-	-			-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	ı	1	-	1	1 -
A 46 STOMACH M	14 13 27		-	-	-	-		-	-	-		-	-	1	-	-	ī	ı	-	-	-	2	2	3	3	1 -
A 47 INTESTINE, EXCEPT RECTUM M			-	-	-	-	-	-	-	-	-	-	= =	1 -		1	1 -	Î	-	1	3	3	3	5	5	4 -
A 48 RECTUM	16 24 40		-	-	-	-	- 1	=		-	-		-	=	Ī	1	1	-	3 4	1 2	2	3 4	4 7	10	4	5 -
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A 49 LARYNX	3 - 3	Ē	-			-		-	-	- 2	-	-	=	-		-	-	1	-	-	-	1	-	-	1	: :
A 50 TRACHEA, BRONCHUS, AND LUNG M NOT SPECIFIED AS SECONDARY F T	52 7 59	-	-	-		i	-	-	-	1	-	1	-	1	1 -	:	1 -	-	5 1	6 2	7	1.0	8	12	5	ī
A 51 BREAST M	37	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	- 4	-	- 3	- 3	7	10	- 2	14	- 4	
4 52 CERVIX UTER1 F	37 13		-	-	-	-	-	-	-	-	-	-	-	2	5	3	4 λ	3	3	3	3	5	2	1	6	? -
A 53 UTERUS. OTHER PARTS F A 54 PROSTATE	20		-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	1	-	2	-	1 -
A 55 SKIN H	1 2	-	-	:	-	-	÷	-	-	-	í	-	-	-	-		-	-	- [	-	-	1	-	-	-	
A 56 BONE AND CONNECTIVE TISSUE #	3 4	-	-	1	-	-	-	-	-	-	1	-	-	-		-	-	1	-	-	-	1 -	3	-	-	
A 57 OTHER AND UNSPECIFIED SITES.	7		-		-	-		-	-	-	1	-	-	-	-	-	-	2	-	=	1	-	3	-	-	
A DIGESTIVE ORGANS M (155-159) F	18	_	-	_			_	_	~	_	-	-	_	_	-	1	_		ı	_	1	6	3	3	1	2 -
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■ RESPIRATORY ORGANS M (160+ 164- 165) F T		-	=			-	-	-	-	-	Ī	=	-	-	-		-	-	-	Ē	-	-	-	Ē	-	
C URINARY ORGANS 8 (180, 181)	9 6 15	-	-	-	-	-		-	-	1 -	Ē	-	-	-	1	-	-	ž	-	1 -	1	1 1	2	1	1 4	
II BRAIN AND NERVOUS SYSTEM M	6 5	=	-		-	-	-	-	-	1		-	-	-	-	-	-	1	ì	1 2	2	2	2	1 -	5	
E OTHER M	11	-	-	-	-	-			-	2			-	- 1	-	-	i	2	1	2	ž L		1 2	- 1		1 1
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A SB LEUKAEMIA AND ALEUKAEMIA M F T	13 12 25				-	-	-	-	1	-	1	1	Ē	-	2 2	1 - 1	3 1 4	1 3	1 1	-	2	- 1	- 3 3	2 1 3	1 2 3	
A 59 LYMPHATIC AND HARMATOPOIETIC SYSTEM.																										
II HODGKIN S (201) II F	6		-	-	- 1	-	î	Ē	-	-	-		-	2 - 2		:	2		1 - 1		Ī	- 1	1 - 1	-	- 1	: :
8 OTHER H	15 7 22	3		3				-	-	Ē		1 1 2	Ē		1	1 -		1	î		4	-	2	2 2	1	2 -
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TOTAL (A44-A59) H	201 181	-	-	-	-	-	-	-	-	1	1	2	-	2	4	4	7	7	11	12	22	27 17	33 21	32 24	1 19 17	15 -
A 60 BENIGN AND UNSPECIFIED	382	-	-	-		-	-	-	1	4	3	3	-	7	8	13	19	19	30	18	38	44	54	56	36	79 -
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III. IV. ALLERGIC, ENDOCRIME. METABOLIC BEB BLOOD DISEASES.																										
A 61 NON-TOXIC GOITRE M	Ē	-	Ē	- 1	-	-	-	=	-	-	-	Ē	Ē	-		Ē	-		-			- 1	-	-	:	1 1
A 62 THYROTOXICOSIS	-	-	-		-	=	-	=	-	-	-	-	=	-	-	1	-			-	-	-	-	-	-	
A 63 DIABETES MELLITUS	23	-	- - -		-	-	-	-	į	-	-	-	-		-	-	1	1	1	3	2	3 5	3 5	4 3 7	- 4 7	 2 - 1 -
F Y A 64 NUTRITIONAL DEFICIENCY H	23 22 45		-	-	-	-	-	-	-	-	-	-	=	-	-	-	-	Ĩ.	i	3 -	3	8 -	-	7 -	11	3 -
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A 65 ANAEMIAS H F T	2 2	-	-	-	=	Ē	-	=	-	=	-	-	Ĩ	-	-		-		-	-	1	-	Ī	=	-	1 -
A 66 OTHER # F	7 10 17		1	1	1 1 2	-	=	-	Ē	-	- 1 1	Ξ	-	-	- 1	1 1 2	1 1 2	1 - 1	1 1	-	2 3	2 - 2	~ ? 2	1	-	: :
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V. MENTAL, PSYCHONEUROTIC AND PERSONALITY DISORDERS.	64		1	,	2																					
A 67 PSYCHOSES	1	-	_	-	-	-		-	-	-	-	-	Ē	-	-	:		·	-	-	-	Ē	-	1 -1	-	
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TABLE 8

DEATHS BY CAUSE AND SEX, BY AGE, CALGARY, 1967

LIST # CAUSE OF DEATH NO. INTERMEDIATE LIST # (SEVENTH REVISION)	TOTAL D	-7 7-21 AYS DAYS	7 28 5 DAY	TOTAL S -1	. ,	AGE		,	4 5	-9 10	-14 15-	19 20	1-24 25	-29 30	)-34 35	5-39 40	-44 45	-49 50	AGE 1-54 5	5-59 6	)-64 6º	5-69 71	0-74 7	579 80	-84 I	95 N.S.
(SEVENTH REVISION)  1 68 PSYGHONEUROTIC AND PERSONA- M LITY DISORDERS	5	-	-	-	-	_	-	-		-	-	=	-	-	:	1	-	3	-	1	1	1 -	-	Ξ	:	1 1
LITY DISDROERS F	6	-	-	1	_	-	-	-	-	-	-	_	-	-	-	-	-	3	-	-	-	1 -	-	-	-	: :
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VI. DISEASES OF THE NERVOUS SYSTEM AND SEMSE ORGANS.																						9		10		
= 70 CEREBROVASCULAR LESIONS M F T	132 119 251	Ξ	-	-	-	Ē	-	-	Ē	Ĩ	-	=	-	1 1	5	2 2	2	1	2 4	9	10	6	13 12 25	19 22 41	35 24 59	33 - 46 - 79 -
A 71 NON-MENINGOCOCCAL N MENINGITIS F	-	Ξ	=	-	-	-	=	Ē	=	-	-	=	-	Ξ	Ē	-	-	-	Ī	=	-	-	-	-	=	E
A 72 MULTIPLE SCLEROSIS II	1 2	-	=	-	-	=	-	Ē	-	-	-	Ē	-	Ē	-	-	3	1	=	Ē	1	I I	Ē	-	-	i i
A 73 EPILEPSY	5 1	-	-	-	-	-	-	_	Ξ	-	1	ī	1 -	2	į	2	3	-	-	Ē	-	-	-	-	t - 1	: :
T  A 74 INFLAMMATORY DISEASES OF II  THE EYE  F		-	-	-	-	- -	-	-	-	-	-	ī	-		2	-	ī	1	-	Ξ	ī	-	-	=	-	: :
A 75 CATARACT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	: :
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A 77 OTITIS MEDIA AND M MASTOLDITIS F T	2	1	-	-	-	-	-	-	-	1	-	=	-	-		-	-	-		-	-	1	1 2	1	-	
A 78 DTHER M F T	10	=	=	1	1	Ξ	Ī	1	Ξ	Ξ	-	=	- - 1	- 2		-	- 2	-		- 7	2 2	13	3	20	2 2 36	33 -
TOTAL (A70-A78) M F T	146 132 278	Ē	Ξ	II 1	1	Ē	Ē	=	Ξ	:	1 2	=	1	1 3	2	2 2	2	2 2	2 4	2 9	3 14	21	16 13 29	20 25 45	36 26 62	33 - 46 - 79 -
VII. DISEASES OF THE CIRCULATORY SYSTEM.																										
HEART DISEASE (A79-A83).  A 79 RHEUMATIC FEVER	-	=	ī	-	_	ī	-	-	Ξ	-	-	Ξ	-	-	-	<u>-</u>	3	Ĩ	-	=	-	-	=	-	-	= =
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T  B 81 ARTERIOSCLEROTIC AND M  DEGENERATIVE F	#3 267 163	-	-	-	-	-	-	-	-	-	-	-	-	ī	2	3	4	9 3	15	23 2 25	23	33 20 53	37 21 58	47 31 78	37 30 67	33 - 43 - 76 -
A 82 OTHER	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	16	1 -	34 # 1	2 2	3 2	4 2	7	3 -
# 83 HYPERTENSIVE	15 38 6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	l I	1	-	1 2	5	6 -	12	6 -
F T TOTAL (A79-A83) H	8 14 302		=	-	=	-	-	-	=	-	-	-	-	1	2	4	4	11	1 17	1 25	27	3 37 27	40	i 51	47	1 -
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■ 84 HYPERTENSION	8 16	Ē	-	Ē	Ē	=	-	-	=	=	Ī	Ξ	-	Ξ	-	Î	-	2	-	1	-	3	3 4	2	2	7 -
# 85 ARTERIAL DISEASES M F T	42 25 67	-	-	Ξ	Ē	=	-	Ē	=	-	=	Ē	-	-	-	-	1 1 2	1 1	Ē	1	5 - 5	3 - 3	7 3 10	7 3 10	9 7 16	10 - 9 - 19 -
A 86 OTHER M F T	6 5 11	-	Ē	Ē	-	-	Ē	-	-	-	Ē	=	- 1	Ē	-	-	Ē	1 1	-	1 1	=	Ē	-	1 ~ 1	3 2 5	2 - 1 - 3 -
TOTAL (A79-A86) M F T	358 241 599	Ē	Ξ	Ξ	Ē	Ξ	Ē	-	Ξ	=	=	Ξ	-	1 1	2 2 4	÷	5 1 6	13 6 19	17 4 21	25 7 32	32 14 46	42 28 70	48 33 81	60 39 99	60 48 108	49 - 59 - 108 -
VIII. DISEASES OF THE RESPIRATORY SYSTEM.																										
A 87 ACUTE UPPER RESPIRATORY M F T	1 1 2	Ē	Ξ	1	1 1	1 - I	=	Ξ	Ī	=	=	=	-	Ē	Ē	=	-	-	=	Ē	-	=	Ē	-	=	ĒĒ
A 88 INFLUENZA M F T	1 2 3	=	-	Ξ	Ē	=	-	=	-	=	-	Ξ	-	-	-	Ē	-		=	- 1	Ē		=	-	1 1 2	1 - 1 -
PNEUMONIA (A89-A91). A 89 LOBAR	3	_	_	-	_	_	_	_	_		-	_	~	_	~				_	_	1		_	1	1	
A 90 BRONCHO	7 14	-	-	-		-	-	1	- 2		-	-		-	-	-	-		=	1	1	-	- 2	2	3	1 -
A 91 ATYPICAL, OTHER, M	14 12 26	-	=	1 2	1 2	-	-	-	-	-	-	=		-	-	-	-	2	-	-	-	-	2	3	7 2	11 -
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BRONCHITIS (A92, A93).  A 92 ACUTE	Ē	=	Ē	Ē	Ē	-	=	=	-	Ē	-		=	-	-	-	-	-	-	-	1	2	Ē	1	=	Ē Ē
T 93 CHRONIC AND UNQUALIFIED M			-	_	-	-	-	-	-	-	-	-	-	-	-	_	_	- - 1	-	-	3	1 1	2	4	- 3 1 4	 2 - 2 -
TOTAL (A92, A93)	17 14	-	_	-	-	_	-	-	_	_		-	_	_	-	-	-	1 -	-	-	3		2	÷		
A 94 TONSILS AND ADENDIDS M	14 3 17		-	-	-	-	-	-	-	= =	-	-	-	-	-	-	:	1	-	-	3	1	2	-	3 1 4	2
F T A 95 EMPYEMA AND LUNG ABSCESS M	2		=	=	=	-	-	=	-	_	-	-	-	-	-	-	-	-	-	-	1	-	-		Ē	3 3
A 96 PLEURISY	ī	Ī	1		-	-	, I	-	=	-	=	-		-	1	=		-	-	=	ī.		-	-	=	= =
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FOTAL (A87-A97) # F	73 43 116		Ē	3 5 II	1	1	-	-	=	1	-	-	1 1	Ē	Ē	Ē	1 1 2	1 3 4	=	4 2 6	9	3 1 4	9 3 12	17 7 24	12 7 19	13 - 12 - 25 -
IX. DISEASES OF THE DIGESTIVE SYSTEM.  A 98 DISEASES OF THE TEETH M																										
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A 100 ULCER OF THE DUDDENUM P	4 3 2 2	-		-	-	-	-	=	=	=	-	-	=	-	- 3		-	-	-	-	-	1 -	-	2 1	1	3 3

TABLE 8

DEATHS BY CAUSE AND SEX, BY AGE, CALGARY, 1967

LIST A CAUSE OF DEATH NO. INTERMEDIATE LIST A (SEVENTH REVISION)	TOTAL	-7 DAYS	7-27 DAYS	28 I	OT AL		AGE												AGE							
ISEVENTH REVISION) A LOL GASTRITIS AND DUDDENITIS M	-	_	- DATS	UATS -	-1	1 -	2	3 -	4	5~9 1	10-14 1	- 19	20-24	25-29	30-34	35-39 4	60-44 4	5-49 5	0-54	55-59 6	0-64 6	55-69	70-74	75-79	80-84	85 N.S.
II 102 APPENDICITIS	3		-	-	=	-	-	-	-	- 1	-	-	- 1	-		-	- 1	-			Ē	-		-	-	
F T A 103 INTESTINAL OBSTRUCTION AND M	3	-	-		-	-	=	Ē	-	-	-	-	-	-	-		i	-	1	-	=	-	1	Ξ	1	
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II 104 GASTRO-ENTERITIS AND M COLITIS II	6 6	Ē	-	Ĩ	-	-	Ē	Ē	-	Ē	-	-	Ē	-	Ē	-	-	-	Ē	-	-	3 3	-	1 1 2	1	5 -
A 105 CTRRHOSTS OF LIVER M F T	18 8 26	-	Ē	-	-	-	-	-	-	-	- 1	-	-	Ē	1	1 1 2	1	4 II 5	2 2	3 - 3	3	1	3 2 II	-	1	: :
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T A 112 HYPERPLASIA OF PROSTATE M		_	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	i.			1	1	1	3 -
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XI. COMPLICATIONS OF PREG- NANCY, CHILDBIRTH, AND PUERPERIUM.																										
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A 117 HAEMORRHAGE F	-	-	-	-	-	-							-							-				-	-	
A 118 ABORTION WITHOUT SEPSIS OR F TOXAFMIA A 119 ABORTION WITH SEPSIS F		-	-		-	-	-		-			-												-		
A 120 OTHER F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	
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A 125 ANKYLOSIS AND ACQUIRED M DEFORMITIES F	-	=	Ē			=			-	-	-	-	-			-				:		-	-	1	-	1 1
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T XIV. COMGENITAL MALFORMATIONS.	15		Î	_						,																
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A 131 POSTNATAL ASPHYXIA AND M ATELECTASIS F T	6 10 16	6 9 15			6 10 16	=		=	-	1	Ē	-	-	-		Ē	-		-	Ē	1	-	-	-	-	: i
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TABLE 8
DEATHS BY CAUSE AND SEX, BY AGE, CALGARY, 1967

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LIST CAUSE OF DEATH NO. INTERMEDIATE LIST A (SEVENTH REVISION) A 135 ILL-DEFINED	TOTAL DA	YS DAY		10	47	-	-	_	_	_	_	-	-	-		-	-	-	-		5	-	-	-	-	
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MYI. SYMPTOMS. SENILITY AND ILL-DEFINED CONDITIONS.																			_	_	_	_	_	_	_	2 -
A 136 SENILITY WITHOUT PSYCHOSIS II F T	2 3 5	-	1	-	-	-	-	-	-	-	-	Ē	Ē	-	-	-	-	-	-	-	-	-	-	-	-	3 - 5 -
A 137 TUL-DEFINED AND UNKNOWN M	131 55 186	-	-	3	-	1	-	-	-	-	- 1	1	- 2 2	1 1	1 - 1	1 1 2	7 2 9	4 1 5	7 3 10	21 6 27	16 - 16	24 7 31	13 4 17	15 9 24	10 3 13	12 - 14 - 26 -
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T XVII. ACCIDENTS, POISONINGS AND VIOLENCE.	191	-	-	-	-	ı	-	-	-			•	•													
EXVII. EXTERNAL CAUSE.  AE 138 MOTOR VEHICLE ACCIDENTS.																										
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AE 143 ACCIDENT CAUSED BY FIRE AND W EXPLOSION F	1 1 2	1	-	Ē	Ē	-	-	-	-	=	-	-	1	-	-	1	Ē	-	1 1	-	-	Ē	Ē	-	1	E E
AE 144 OTHER ACCIDENTAL BURNS M	-	1	=	-	=	=	-	-		-	-	-	-	-	2	-	-	-	-	=	-	-	-		-	: :
AE 145 ACCIDENT CAUSED BY FIREARM M	1 7	Ī	=	-	-	Ē	=	2	-	-	-	=	- 1	-	1	1 - 1	-	-	Ĭ	=	-	Ē	=	-	-	: :
AE 146 ACCIDENTAL DROWNING H	7	-	-	Ī	-	-		-	Ē	2 - 2	1	-	=	1 - 1	1	-	2 - 2	Ē	Ē	Ē	Ē	i i	=	Ē	-	1 - - 1 -
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T MXVII. NATURE OF INJURY.	173	-	-	2	2	i	i	3	1	8	7	11	13	21	9	13	15	11	10	8	4	5	3	11	7	9 -
AN 138 FRACTURE OF SKULL	19	-	1	-	-	-	-	1		1	-	3	1 -	5	-	1 -	4	1 - 1	î	-	-	3	2	1	-	: :
AN 139 FRACTURE OF SPINE AND TRUNK M	23	-	-	1		1	1	-		-	-	-	-	-	1	1	-	-	2 -	-	-	1		-	- 2	ĒĒ
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T  AN 146 SUPERFICIAL INJURY DR M CONTUSION F	3	- -	2	1	-	-	-	-	-				-	1	-	2	-	-	:	-	t - -	-	-	- 1 1	-	1 -
AN 147 FOREIGN BODY THROUGH M DRIFICE F	2 1 -	-	=	-	-	-	-	-	-	-	-	-	1	-	-	=	-	-	-	-	-	-	=	-	-	= =
AN 148 BURNS H	1 2 1	-	-	-	-	-	-	-	-	=		-	1	-	2	-	-	-	- 1	-	-	-	-	=	-	= =
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TABLE 9

DEATHS BY CAUSE AND SEX, BY MARITAL STATUS AND AGE, ALBERTA, 1967

LIST NO.	A CAUSE OF DEATH INTERHEDIATE LIST A ISEVENTH REVISION)	TOTAL	UNDER 15				S INGL E								MARR16	D			ж	DOWED A	ND DIVOR	CEO			NDT TATED
	I SEVENTH REVISION)  1. INFECTIVE AND PARASITIC DISEASES.			JATOT	15-24	25~44	45-64	65-74	75 A	. \$.	TOTAL	15-24	25-44	45-64	65-74	75 A	4-S.	TOTAL	15-24	25-44	45-64 6	5-74	75		TATEL
	TURERCULOSIS (A1-A5).																								
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	2 MENINGES AND CENTRAL M NERVOUS SYSTEM F T	-			- 1			-		:			-											Ē	-
A	3 INTESTINE, PERITONEUM AND M MESENTERY F T	=					-	-	-	-		-	- :		-	-									
A	4 BONE AND JOINT M F T		-		-		-	-	-	-	-	-	- 1										-	-	-
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A 1	7 SCARLET FEVER M											_	-												
A 1	8 STREPTOCOCCAL SORE THROAT M							-	-	-	-		-	-		-			-	-			-	-	-
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A 2	7 ANTHRAX M F				-			-	-	-	-	ī	Ē			-			-	-					
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A 3	6 TYPHUS AND OTHER RICKETT- M STAL DISEASES F	-			Ē		-	-	Ē	-	-	-	- 1											-	
A 3	7 MALARIA M	:	-	:	-	-	Ē	Ē	-	-	-	Ē	Ē						:	Î					
A 3	B SCHISTOSOMIASIS	=		-	-		i	Ē	-	-	-	-	Ē			-			-	:		i			
	1																								

TABLE 9

DEATHS BY CAUSE AND SEX, BY MARITAL STATUS AND AGE, ALBERTA, 1967

	DEATH	IS BY	CAL	JSE	AND	SEX	, BY	MA	ARIT	'AL S	TATI		ND R D4	AGE		BEF	RTA,	1967	,					
		UNDER				SINGLE							R U4	PROV				M:	I DOMED	AND DEVO	ACED			NOT
LIST A CAUSE OF DEATH NO. INTERMEDIATE LIST A ISEVENTH REVISION)	TOTAL	15	TOTAL	15-24	25-44	45-64	65-74	75	N.S.	TOTAL	15-24	25-44	45-64	65-74	75 N		TOTAL	15-24	25-44	45-64	65-74	75	1.5.	
A 39 HYDATID DISEASE III F	-	-			- 3	-	3	-	-	-	-	-	-				-		-		-	-	-	-
# 40 FILARIASIS		5	-	-	-	-	-	-	-	-	-	-	-	1	- :	2	:	-	-	-	-	-	-	-
A 41 ANKYLOSTOMIASIS III		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	_	-	-
F T		=		-		=	-		-	=	-	-	-	-	-	-	-	-	-	-	-	-	-	2
A 42 OTHER DISEASES DUE TO M  MELMINTHS F  T		-	=	-	-	=	=	=	-		=	-	-	- 1	1	-		-	-				-	-
A 43 DIHER	2 11	1 2	- 1 1	=		- 1	-	=	=	1	-		1 - 1	1	-	-	i i	-		-	1	-	-	Ē
TOTAL (A1-A43) II	42 29 71	8	II 2	-	1	2	-	5	-	18	-	-	7 2	5		-	6 7	2		ĩ	2	4 3	=	2
TI. NEOPLASMS.	71	20	10	-	2	3	~	5	-	25	-	4		6		-	13	-	-	1	5	7	-	3
MALIGNANT NEOPLASMS (444-459).																								
A 44 BUCCAL CAVITY AND PHARYNX M F T	7 7 28	1	2 1 3	-	-	1	-	2	-	17 5 22	-	2	8 3 11	2	6	-	1 2	=	-		Ē	1 2	-	-
ш 45 ПESOPHAGUS М Е	22	Ξ	4 -	-		1 -	=	3 - 3	Ī	12	-	-	3	3 - 3	6 2 8	=	6 6 12	-	-	1	2	3 5	=	-
# 46 STOMACH M	30 115 55 170	-	23	-	2	6		7	-	73	-	•	23 12 35	24	22	-	19 29 48	-	-	1	3 5	15 21 36	-	-
T A 47 INTESTINE, EXCEPT RECTUM H		-	2 25 11	-	2	7	8	8	-	24 97 62	-	8 2		29 15	25 20	-	48	-	-	4	8		-	- 1
F T	94 96 190	Ξ	14	-	1	11 5	3	5	-	62 47 109	-	?	25 23 48	15 12 27	20 10 30		46 66	=	1	2	16	16 28 44	-	ī
A 48 RECTUM III F	51 31 82	Ē	10 2 12	1 - 1	11 - 2	1	3 - 3	1 5	-	37 18 55	3	2 2 4	10 8 18	12 5 17	13 3 16	-	11 15			=	1 3 4	3 8 11	-	-
A 49 LARYNX III	15		3 -	-	-	-	3 -	-	-	12	-	-	5	L -	6		-	ũ		-	-	-	-	-
# 50 TRACHEA, BRONCHUS, AND LUNG M NOT SPECIFIED AS SECONDARY F	209 42 251	-	24	Ī	-	8	10	6	-	152	-	7	72	44	6 29		32	-	-		11	17	-	1
NOT SPECIFIED AS SECONDARY F T  # 51 BREAST	42 251	=	26	-	-	9	11	6	-	28 180	=	11	72 18 90	46	33		32 1.2 44	-	1	5	13	25	-	ĩ
Ť	1 155 156	-	12	Ē	1	5 5	4	2	-	1 105 106	-	26 26	62	9	8		3.8 3.8	Ē	1	8 8	10	19	-	-
A 52 CERVIX UTERI F A 53 UTERUS, OTHER PARTS F	3 l 18	-	1	-	1 -	- 1	-	-	-	21	-	7	13	l l	- 4	-	9	-	-	4 2		3 5	-	-
A 54 PROSTATE M	99	-	14	-	-	- 1		11	-	61	-		11	23	27		24		-	-	2	22	-	-
A 55 SKIN	14 6 20	1	11 - 3	Ĩ	1	1 - 1	1 - 1	-	-	8 4 12	-	1 2	5	1 4	- 1		3 1 4	Ē		1	-	1 3	-	-
# 56 BONE AND CONNECTIVE TISSUE #	10 10 20	- 2	2	2	-	Ξ	Ξ	Ξ	-	11 6 14	-	1	2 5	5 -	-		ī	î	2	- 1	ī	- 1	1	-
# 57 OTHER AND UNSPECIFIED SITES.	20	4	3	,			-	-	-	14	_	(	ľ	,										
A DIGESTIVE ORGANS H (155-159) F	96 70 166	1	11 4 15	- 1	- 1	3	5	3	-	65 30 95	- 1	3	16 14 30	29	17 5 22	-	20 36 56	-	-	5	4	11 17 28	-	-
8 RESPIRATORY DRGANS M	166	- 1	15	1 -	i -	4	s l	4	-	95 1	-	4	30	10 39	22	-	56	-		10	14	28	-	-
(160+ 164+ 165) F	3	1	ī	-	-	Ξ	1	-	-	1	Ξ	-	-	1	-	-	-	-	-		-	-	-	-
C URINARY ORGANIC	4.0	2	10					,				,												
C URINARY ORGANS M ELEO. LP11 F	68 27 95	2	1 11	=	-	1 6	2	3	=	14 58	Ī	2 5	16 6 22	12 3 15	13 3 16	-	12 12 24		-	3	3 7	7 14	-	
0 BRAIN AND NERVOUS SYSTEM # (193) F	33 19 52	2 3 5	1 5	3 - 3	1 1 2	=	=	-	-	25 13 38		7 5 12	14 6 20	II 2 5	1 - 1	-	2 2			i	1	2 - 2	-	
E OTHER	36 97 133	- 1	6 13 19	2	1	7	3	1 2	,-	22 51 73	1 -	3 8 11	10 27 37	2 10 12	1	1	8 32	-	- 2	1	10	7 12	-	2
101AL (457) M	236 213 449	5	32 19 51	5 2		8	11	7		73 157 108 265	1	16 16 32	37 56 53	47	37	-	40 42 82 124	-	- 2	6	11	27 36 63	-	-
A 58 LEUKAEMIA AND ALEUKAEMIA II	56	9	51 9	7	5	17	1 12 3	10	-		1	32	109	25 72 9	14 51 5		5	-	2 2	16 22 2	28 37	3	1	-
A 59 LYMPHATIC AND MAEMATOPOIETIC	31 87	13	10	5	=	Ξ	4	ī	-	35 14 49	î	14	15	13	6	-	14	-	-	3	2 2	9	-	î
SYSTEM. A HODGKIN S (201)	19	_	3	_	_	2	1	_	_	15	_	9										1	_	_
F	26	Ξ	2 5	2		2	1	-	-	17	-	9	2 8	Ξ	-	-	3 4	_	-	1	1	1 1	-	-
II OTHER	44 23 67	5 5	7 1 11	2 1 3	-	1	1	3	-	32 10 42	=	3 1 4	10 2 12	15 6 15	10 1 11	-	3 12 15	=	-	2	- 6 6	2 4 6	=	-
TOTAL (A59) H F	63 30 93	2 - 2	10 3 13	2 3 5	-	3 - 3	2 - 2	3 - 3	=	47 12 59	-	12 1 13	16 4 20	9 6 15	10 1	-	4 15 19	-	-	1 3	7	3 5	=	-
TOTAL (A44-A59)	1.006 733	14 14 28	147 48 195	15	7	31 21 52	46	48	Ξ	582	2	55 72 127	246 210 456	107	182 50 232	-	160 268 428	_	-	17	31 77 108	112 146 258	-	3
A AD RENIEN AND UNSPECIFIED M	1,739	28	195	21 - -	13	52	53	56 -	-	403 1.085	2		4	71 268	232	-	428	-	5 5	40 57	-	258	-	3
F	18	2	ī	-	:	1	Ē	=	=	13	=	2	4	Ī	3	=	2	-	-	1	=	1	-	-
TOTAL (A44-A60) # F T	1.015 742 1.757	15 15 30	148 48 196	15 6 21	7 6 13	32 21 53	46 7 53	48 8 96	-	688 410 1.098	2 - 2	55 74 129	250 214 464	197 71 268	184 51 235	Ξ	161 269 430	-	5	17 41 58	31 77 108	113 146 259	Ē	3 - 3
III. IV. ALLERGIC. EMDOCRIME. METABOLIC AND BLOOD DISEASES.																								
A 61 NON-TOXIC GOITRE M		-	Ē	-	-	=	=	-	-	=	=	-	-		-	:	-	2	-	-	-	=	=	-
A 62 THYROTOXICOSIS	-	_	_	-	-	-	-	~	-	-	_	-	-	-	-	-	1	_	-	_	-	-	-	-
A 63 DIABETES MELLITUS M	90	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Ξ	-	=	-	-	=	=
F T	89 179	=	3 21	1	1 2	1 4	8 - 8	5 1 II	1	47 45 92	1 1	2 2	12 12 24	13 18 31	19 15 34	-	24 41 65	-	-	4 2 6	12 14	18 27 45	Ē	1
# 64 NUTRITIONAL DEFICIENCY # F T	3 - 3	-	3 - 3	=	-	2 - 2	Ē	1	-	-	-	Ē	-		-	-		-	-	-	-	-	-	-
A 65 ANACHTAS	11 6 17	-	7 1 1	1	-	- :	Ē	-	1	7 1 8	-	-	3 ~	2	2	:	4	-	-	:	1	3	-	-
A 66 OTHER	37 25 62	6 5	4	-	-	-	2	2	-		-	4	6	7	6		2	-	-	1	2	6	_	1
TOTAL (A61-A661	62 141 120	11	1 5 25	-	1	- 5	2	2	-	25 11 36 79	1	5	3 9 21	10	3 11		10	-	1	3	2 2	22	-	1
F	261	5 11	30	1 2	3	1 6	10	l 9	-	79 57 136	1 2	11 7	21 15 36	22 21 43	29 19 48	-	30 53 83	-	1	5 4 9	3 15 18	22 33 55	-	1
Y. MENTAL, PSYCHOMEUROTIC AND PERSONALITY DISORDERS.																								
A 67 PSYCHOSES M F T	3 7		3 -	- 1	-	1	2	2 - 2	1	- 2		ī	1	-		-	l l	Ξ		ī	1	1 -	-	-
													-				-							

TABLE 9

DEATHS BY CAUSE AND SEX, BY MARITAL STATUS AND AGE, ALBERTA. 1967

FR D4 PROV 08

L ts	T A	CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)	TOTAL	UNDER			S	INGLE						·	R D4	MARRIE				WI	DDWED	AND DIVE	RCED			NOT STATED
	68 PS	SYCHONEUROTIC AND PERSONA- #	20	_	TOTAL 10	15-24	25-44	45-64	5-74	75 N	- 2 -	TOTAL	15~24	25-44	45-64	65-74	75 N		TOTAL	15-24	25-44	45-64	85-74	75 1	-5-	IMIEU
		LITY DISORDERS F	23		11	1	2	7	-	1	-	1 7	-	- 1	1 4	1	1	-	1 5		1 - 1	1 3	-	1 1	-	-
^	69 ME	ENTAL DEFICIENCY M F T	-	-	-	-	-	-	-	-	-	-	-	â	-		-	-	3		-	-	÷	-	-	-
		TOTAL (A67-A69) M	24 8 30		13 1 14	- 1	2	8 -	-	3 -	-	6	-	1 1	3 2	1	1	-	5 2	-	į	2 2	-	2	-	-
	٧	VI. DISEASES OF THE MERVOUS SYSTEM AND SEMSE ORGANS.					ž.		~	3	-	9	-	2	5	1	1	-	7	_	1	4	-	2	-	-
A	70 CE	EREBROVASCULAR LESIONS II	549	-	90	ı	ι	16	19	53	_	302	_	8	47	78	169		152	_		5	1.7	120		
A	71 NO	T ON-MENINGOCOCCAL M MENINGITIS F	549 470 1.019	3	90 19 109	1	ī	2.2	24	61	-	302 159 461	1	6 14	47 40 87	78 51 129	169 61 230	-	152 288 440	-	1	10 15	17 44 61	129 234 363	-	I B
		т	3	3 4	-		-	-	=	-	=	5	-		-		5	-	-	-	- 1	-	-	-	=	-
	72 MU	ULTIPLE SCLEROSIS M F T	10 14	=	2 2 4	-	-	2 2 4	Ē	-	-	2 7 III	-	4	2 3 5	- 3	- 1	-	1			-	1	-	-	-
A	73 EP	PTLEPSY M F	11 II 19	3 3 6	5 2 7	2 2	3 -	-	-	~	Ξ	3	-	1 -	-	1	2	Ē	3	-	-	-	ĩ	-1	Ξ	-
	74 IN	NFLAHMATORY DISEASES OF M THE EYE	=		=	-	-	-	-	-	-	-	-	- 1	-			-	3	-	-	1	-	-	-	-
A	75 CA	ATARACT	-	-	-	-	-	-	-	-	_		-	-	-	-	-	-	-	-	-	-	-	-	-	-
A	76 GL	T LAUCONA H		-	-	-	-	-	-	-	-			-	Ĩ		-	-		~	-	-	-	-	-	-
		F T			Ξ	=	-	-	-	-	-	-	-	-	-	-	-	-	-		=		-	- 3	ē	-
		MASTOIDITIS F	1 4	=	=	Ē	-	-	-		-	2 1 3	-	-	1	2 2		-	- 1	÷		-	1		-	-
A	78 01	THER H F T	30 33 63	2 4 6	11 1 4	=	2 - 2	1 -	1	-	-	22 12 34	-	1	3 7	10 5 15	7 II 10	-	3 16 19	-	- 3	3	1 2	II 11 13		-
		TOTAL (A70-A78) #	600 525	6 13 19	100 24 124	3 2	6	19	19	53 8	-	333 179 512	-1	10 11 21	53	90 56 146	180 64 244	-	156 308 464	-	1	5	19 iiii 67	131 246 377	1	II .
	٧	VII. DISEASES OF THE CIRCULATORY SYSTEM.	1,125	19	124		6	27	25	61	-	512	1	21	100	146	244	-	464	-	1	19	67	377	-	i
	не	EART DISEASE (A79-A83).																								
A	79 RH	HEUMATIC FEVER # F T			=	-	-	-	-	-	Ξ	-	-	Ē	-	-		-	-	-				Ē	-	
A	80 CH	HRONEC RHEUMATIC H	26 54 80	1	5 iii 11	=	-	2 2	l 2	2 2	-	17 27 44	-	11 4	9 13 22	2 II 10	3 2 5	÷	3 21 24	-	1	2 7	7	1	-	
	8 L AR	RTERIOSCLEROTIC AND M DEGENERATIVE F	1.792 871 2.663		238 36 274	1 -	5	59 11 70	72 II	101	-	1.159	1	49	407 68 475	346 103 449	356 129 485	-	383 523 906	-	1	31	71	280	-	1.2
A	82 01	THER H	2 + 663 92 72	1	274	1	6	70	75 11	122	-	1.471	1 -	61		11	485	-	906 28 43	-	1	29 60	108 179	666	-	12
A	83 HY	T T YPERTENSIVE	164	2	21	2	i	4	3	10	-	46 24 70 22	-	2 3	11 11 22	15	31		71	-	1	3 11	10	24 32 56	-	-
		F T	33 37 70	-	6		-	-	2 5	1	-	31	-	-	3 8	10	13	-	26 33	-	-	1	5	21 25	Ξ	-
		70TAL (A79-A83) # F T	1.943 1.034 2.977	1 3	264 48 312	1 3	2 8	64 14 78	79 7 86	113 24 137	-	1.244 372 1.616	l l	52 1.8 70	432 95 527	366 118 484	393 141 534	Ē	421 613 1,034	-	1 ? II	36 40 76	75 126 201	309 445 754	-	12
A	84 117	YPERTENSION	26 20 46		2	-	-	2 - 2	-	-	-	16 8 24	- 1	-	4 3 7	4 3 7	8 2 10	Ê	12 20	- 1		1 - 1	1 2 11	10 16	Ē	-
A	85 AF	RTERIAL DISEASES M	149	_	31	_	_	2	7	22	_		_	1	17	19	43	_		_			5		_	1
		F T	112 261	-	39	-	1	3	1 1	5 27	-	80 37 117	-	3	24	27	20 63	2	37 67 104	Ĩ	Ĵ	1	12	32 56 88	-	1
Î	96 UI	THER # F T	40 26 66	- 1	2 10	-	-	1 2	-	II 7	Ē	24 12 36	-	3 4	10 5 15	2 7	8 ii 10	-	12 18	=	- 1	1 t	2 2	9	-	1
		TOTAL (A79-A86) P	2,158 1,192 3,350	3 L 4	305 58 363	2 1 3	7 3 IE	69 16 85	86 II 94	141 == 171	=	1.364 429 1.793	- 1	54 23 77	463 110 573	394 131 525	452 165 617	-	472 704 1-176	-	1 2 3	37 45 82	81 137 218	353 520 873	Ξ	14
	٧	VIII. DISEASES OF THE RESPIRATORY SYSTEM.																								
A	87 AC	CUTE UPPER RESPIRATORY M F T	6 3 II	5 3 8	1 - 1	-	Ξ	1	-	-	Ē	-	-	-	-	-	-	-	-	-	-	:	-	- 1	-	-
A	88 [5	NFLUENZA	8 4 12	-	1	-	-	-	=	1 -	Ē	5	Ē	-	-	-	5	-	2 3	-	-	-	-	2 3	=	-
	Ph	T NEUMONIA (A89-A91).	12	1	ı	-	-	-	-			,			-		,	-						7		
A	89 LC	OBAR III F	15 12 27	2 3	1		-	-	=	1 1	-	11 5 14	-	1 - 1	2 1 3	1 1 2	5 3 8	-	4 5 9	-	-	1 1	1 - 1	3 4 7	-	-
A	90 BF	RONCHO #	96 75	15 12 27	19 5 24	2	1 -	1 6	2 - 2	10 3 13	=	34 20 54	-	1 1 2	4	6	23 15 38	-	28 38 66	-	-	1	3 7	24 34 58	-	-
	91 AT	TYPICAL, OTHER M UNSPECIFIED F	171 59 42	12 16 28	9	-	į	3	1	5	=	23 6 29	-	1 -	2	5 -	15	-	14 19 33	-	-	-	- 1	14 18 32	Ξ	1 -
		TOTAL (A89-A91) M	101	28	10	- 2	1 1	7	2	16 3 19	-	66	-	3	8	12	20 43 23 66	-	46	-	-	-	5	41	-	1
	80	F T RONCHITIS (A92, A93).	129 299	30 58	35	3	i	•	i	19	-	31 97	-	4	11	12 4 16	66	-	108	-	-	2	9	56 97	-	1
A		CUTE	2 1 II	1 1	1	Ē	1 -	-	-	=	-	1	Ē	-	-	-	1 - 1	Ĭ	-	-	Ē	Ē	-	-	-	-
A	93 CF	HRONIC AND UNQUALIFIED II	61	2	12	-	-	3	1	7	-	37	-		8 2	16	13	-	10 5	-	_	1	3 3 6	6 2	-	_
	1	TOTAL (A92. A93) M	13 74 63	2 4 2	13	1 -	1	3	2	8	-	41	-	1	10	17	13	-		-	-	1	3	6 2	_	-
		F T	14 77	5	15	1	ī	3	2	8	-	42	-	1	10	16 1 17	14	-	10 5 15	-	=	ī	6	8	-	-
	94 TC	OMSILS AND ADENOIDS # F	2 2 4	2 2 4	=	=	=	-	-	2	-	-	-	Ī	-	-	-	-		-	-	-	î	-	=	-
	95 EH	MPYEMA AND LUNG ABSCESS M F T	2 - Z		1 - 1	-	-	1	=	-	-	1 1	-	=	1 - 1	- 1	-	-	-	-	=	=	Ē	=	-	-
A	96 PL	LEURISY	? 3 5	-	1 1	-	Ξ	-	-	1 - 1	-	- 3 3	1	ì	-	1 1	1	=	1 1	-	-	-	-	1 1	-	-
A	97 01	THER	103 37 140	4	15	1 -	3	5 -	1 _	5	-	67 17 84	- 1 1	2 1 3	16 6 22	20 4 24	29 5 34	1	16 19 35	-	2	2 2 4	2 - 2	10 17 27	-	1 - 1
		TOTAL (A87-A97)		1 5 41	15 61	1 3 2		5 17 1	1 5 1	5 30	-	177 95 232	ī	3 5 4	33 11 44	24 111 10 58	91 29 120	-	75 	=	2	3 4 7	10 7 17	60 78	=	2
		T T	356 192 548	41 40 81	61 8 69	2		18	6	34	-	232	i	9	44	58	120	-	164	-	2	7	17	FIRE	-	
A		IX. DISEASES OF THE DIGESTIVE SYSTEM.				-	-	-	-	_		-	-	-	-	-	-	-	-	-	Ē	-	-	- 3	-	-
		F T	Ī.	-	-		- t	1	-	- 2	-	9	-	- 1	3	- 2	4	-		-	_	-				
		LCER OF THE STOMACH H	15 9 24	Ē	+	=	1	ī		2	=	15	-	-	3 6	1 3	6	-	2 3 5	=	-	=	:	2 3 5	Ē	1
A	100 UL	LCER OF THE DUODENUM M F T	21 11 32	-	1 1 2	1	-	Ĩ	1	=	-	12 6 18	Ē	1 2	6 1 7	1 1 2	3 7	-	7 4 11	-	-	=	=	11	-	i

TABLE 9
DEATHS BY CAUSE AND SEX, BY MARITAL STATUS AND AGE, ALBERTA, 1967

												FR	04	PROV 0										
LIST A CAUSE OF DEATH NO. INTERMEDIATE LIST A (SEVENTH REVISION)	TOTAL	UNDER 15	TOTAL	15-24		45-64	65-74	75 1	1.S.	TOTAL	15-24	25-44 4	4-11	MARR 1 ED	75 N		TOTAL		25-44 4			75 N.		NOT
II LOL GASTRITIS AND DUODENITIS M	1	-	-	=	-	-	-	-	-	-	-	-	-	-	-	-	1 -	-	-	-	-	1	-	-
II 102 APPENDICITES	7	-	1	-	-	-	-	1	-	4	-	1	2	1	-	-	1	-	-	-	-	2	-	-
II 103 INTESTINAL OBSTRUCTION AND M	7 36	7	1	_			-	1	-	20	_	3	2	1 6	- 9	-	2 8	-	-	-	ī	2	-	-
MERNIA F T A 104 GASTRO-ENTERITIS AND M	36 23 59	10	3		1	1	- 2	1	-	26 7	=	5	2	9	10	-	12 20	-	-	-	1 2	11 18	-	-
COLITIS F T II tos cirrhosis of Liver	36 56 48	15 22	3 11	-	-	-	2	ī	-	16	Ξ	-	6	4	6	-	12	-	-	5	5	6 8	=	-
F	29 77	1 1	1 12	1	1	5	1	-	-	30 19 49	Ξ	5	16 9 25	8 3 11	2 2 4	Ī	7 7 14	Ē	1 1 2	2 3 5	2 2	1 5	Ξ	1 1
II 106 CHOLELITHIASIS AND CHOLECY- M STITIS F T	17 27 44	-	2 - 2	=	=	1 - 1	-	1	Ĩ	11 11 22	-	1 1	1 6 9	3 1 4	7 1 8	-	4 16 20	-	Ī	2 2	3	11 15	=	-
II 107 OTHER M F T	43 20 63	1 1 2	8 1 9	1 - 1	-	5 - 5	2 1 3	3	-	24 8 32	1 - 1	4 1 5	6 3	6	7 4 11	-	10 10 20		-	1 1 2	3	8 6 14	=	-
TOTAL (A98-A107) M F	208 155 363	15 20 35	31 5 36	1 2 3	- 2 1	9 1 10	6	13 - 13	=	117 65 182	1	13 10 23	28 66	27 13 40	14 52	-	44 64 108	Ξ	1	3 8	3 13 16	37 42 79	Ξ	1 1
X. DISEASES OF THE GENETO- URINARY SYSTEM.	,,,	37	30	,	,	10	,	13	-	182	,	25	66	40	52	-	108	-	2	11	16	79	-	2
A 108 ACUTE NEPHRITIS M	2 - 2	=	-	=	-	-	-	-	-	2 - 2	-	-	1	Ē	1 -	1	-	-	1	ĩ	1	1	Ξ	-
A 109 CHRONIC AND OTHER NEPHRITIS M	30 20 50	-	5 -	-	2 -	-	2 -	1 -	-	19 14 33	2 2	1 3	5	9	4	-	6	-	-	- 1	1 2	5	-	-
A ELO INFECTIONS OF KIDNEY M	50 22 19 41	=	5 6 9	- 1 2	-	2	2	3 2	-	10	2	1	11	12	5	-	12	-	-	ì	3	6	-	-
A 111 CALCULI	41	-	11	3 -	-	5	i -	5	-	16	-	1 -	5	3	7	-	14	-	-	1	2 -	11	-	-
F T A 112 HYPERPLASIA OF PROSTATE M	4 6 27	-	- 4	-	-	-	1	- 3	-	3 5 15	-	1	2 2	1	1	-	1 1 8	=	-	-	1	-	-	-
A 113 BREAST M	-	2	1	=	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	-
A 114 OTHER H	6 11 17	-	2	-	-	-	-	2	-	2 5	-	- 2	1	1	-	-	2	-	-	-	-	II 2:-	-	-
TOTAL (A108-A114) H	17 89 54 143	-	17 6	1 2	2	2	3	9	-	7 50 28 78	i -	2	10	18	20	-	22	-	-	- - 2	3 1	21	-	-
T XI. COMPLICATIONS OF PREG-	143	-	23	3	3	2	4	11	-	78	3	8	12	23	22	-	22 20 42	=	Ξ	2	9	10 31	-	2
MANCY, CHILDBIRTH, AND PUERPERIUM. A 115 SEPSISF	-	_	~	_	_	_	-	_	_	_	_	_	_	_	_		-	_	_	_	_	_	_	_
A 116 TOXAEMIA F A 117 HAEMORRHAGE F	2	-	1	1	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-
# 118 ABORTION WITHOUT SEPSIS EM F TOXAGMIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 119 ABORTION WITH SEPSIS F A 120 OTHER F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL (A115-A120) #	5	-	1	1	-	-	-	-	-	4	1	3	-	-	-	-	-	-	-	-	-	-	-	-
A 121 SKIN INFECTIONS N	2	_	1	_	_	1	_	_	_	1	_		_		1	_	_	_	_	_	_	_	_	
F Y A 122 ARTHRITIS AND SPONDYLITIS III	3 5		1			1	=	-	-	1 2 7	=	-	1	-	1	-	2 2	Ξ	-	-		2 2 2	-	-
F. T	8	- 1	1	Ξ	1 1	ī	-	-	Ī	10	-	-	2 4	2	1 4	-	7	=	Ē	-	1	6	-	-
A 123 RHEUMATISM M F T	5 -		=	=	-	=	-	=	-	1 1	Ē	-	-	1 1	Ē	-	1	=	Ē	1 1	-	-	-	Ē
A 124 OSTEOMYELITIS M F T	1 1	-	1 - 1	Ĩ				1 - 1	-	-	-	Ē	-	-	-	-		-	-	-	=	=	-	-
A 125 ANKYLOSIS AND ACQUIRED M DEFORMITIES F		-	-	=	-	-	-	-	-		-	-	=	-	Ξ	-	- 1	=	-	-	-	=	-	-
A 126 OTHER	7 8 15	2	1 2 3	- 1	1	-	-	1	-	2 2	-	1 -	- 1 1	- 1	1 -	-	- 3 3	-	÷	÷	- 2	1	-	2
TOTAL (A121-A126) M	20 21 41	2 1	3 3	-	- 2	1 _	=	2 -	-	10 7 17	-	1	2 4	1 II 2	5	-	3 10 13		_	-	1 2	2 7	:	2 -
XIV. CONGENITAL MALFORMATIONS.	*1	,	۰	1	Z	1	-	2	-	17	-	1	6	*	6	-	13	-	-	•	3	9	-	2
A 127 SPINA BIFIDA AND MENINGOCELE.  A WITHOUT HYDROCEPHALUS III		3																						
F	3	3	=	=	=	Ē	Ē	=	-	-	Ē	-	=	-	=	-	-	=	=	-	Ξ	=	-	-
B WITH HYDROCEPHALUS M F T	2 2 4	1 2 3	1	1 - 1	Ē	Ē	Ē	1	-	-	Ē	-	-	-	=	-	-	Ξ	-	Ē	Ē	Ξ	-	Ξ
TOTAL (A127) M F T	5 2 7	4 2 6	1 1	1 1	-	Ī	-		-	-	Ē	-	-	-	-	-	=	-	Ē	3	-	-	-	-
A 128 CIRCULATORY SYSTEM M F T	49 34 83	44 28 72	2 3	1 1 2	1		-	=	-	4 4 8	Ē	2 1 3	1 3	1 -	-	1	=	Ē	Ē	-	2	=	-	Ī
A 129 OTHER M	34 25 59	32 23 55	_ 1	1	Ī	ū	-	-	-	2	-	=	1	1	Ξ	-	1	-	-	=	1 1	-	=	-
TDTAL (A127-A129) M	88 61 149	80 53 133	1 2 3 5	1 2 2 4	-	-	=		-	6 4 10	-	2	2 3 5	2	-	-	_	-	-	-	-	-	=	-
Y . DISEASES OF EARLY INFAMCY.	149	133	5	4	1	-	-	-	-	10	-	3	5	2	-	-	i.	-	-	-	i	~		-
A 130 BIRTH INJURY M	23 20 43	23 20 43	Ē	-	-	=	Ē	-	=	Ē	Ξ	:	-	-	-	-	-	-	Ē	-	-	=	-	-
A 131 POSTNATAL ASPMYXIA AND M ATELECTASIS F	44 32	43 44 32 76	-	-	2	-	-	-	-	1	-			-	-		-	-	-	-	-	-	-	-
A 132 INFECTIONS OF NEWBORN M	76	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	~	-
A 133 ERYTHROBLASTOSIS	3 10 5	3 10 5	=	-	-	-	-	-	-	-	=	-	-	=	-	-		-	-	-	_	=	=	-
A 134 OTHER DEFINED	9 2	9		=	-	-	=	=	=	-	Ξ	1	-	=	=	-	-	=	-	-	Ξ	-	-	=
F	6 8	5 6 8	=	Ξ	Ē	Ē	=	=	=	-	=	-	-	Ē	Ξ	-	=	=	-	3	=	Ē	-	Ē

TABLE 9

DEATHS BY CAUSE AND SEX, BY MARITAL STATUS AND AGE, ALBERTA 1967

LIST A CAUSE OF DEATH NO. INTERMEDIATE LIST # (SEVENTH REVISION)		UNDER 15				S INGL E							FR D4	PROV MARRI				н	I DOWED 4	IND DEVI	DRCED			NOT
(SEVENTH REVISION)  A 135 ILL-DEFINED	TOTAL	127	TOTAL	15-24	25-44	45-64	65-74	75	4 - S -	TOTAL	15-24	25-44	45-64	66-74	75	N - S -	FOTAL	15~24	29-94	45-64	65-74	75	N.S.	STATEC
F T T TOTAL (A130-A135) N	10t 228 208	127 101 228	=	-	Ē	-	=	î																
F T	166 374	208 166 374	-	=	=	-	-		-		-	-			-	-	-		-	-		-	Ē	=
XVI. SYMPTOMS, SENTLITY AND ILL-DEFINED CONDITIONS.  A 136 SENTLITY WITHOUT PSYCHOSIS M	18																							
F T	21 39	=	4 8	=	=	-	-	4		3 0				i	6 7 8		6 14 22					8 14 22		
A 137 ILL-DEFINED AND UNKNOWN M F T	166 72 238	1 1	28 5 33	1	3 - 3	6 - 8	9 1 10	8 3 11	-	100 32 132	- E 2	11 5	38 8 46	30 5	76 11 37	1	36 34 70		3 -	E 5	11 5	21 24 45		2 - 2
TOTAL (A136. A137) M F T	184 93 277	1	32 9 41	1	3 -	0 -	11 10	12 7 19	-	106 35 141	- 2	6	38	30 7 37	32 13 45	-	44 48 92	-		13	4 5	29 38 67	-	2
XVII. ACCIDENTS, POISONINGS						Ī	10	17		141	2	11	46	37	45	-	92	-	3	13		67	-	2
EXVII. EXTERNAL CAUSE.  AE 136 MOTOR VEHICLE ACCIDENTS.																								
A TRAFFIC (810-825) M	317 102 419	26 15 41	143	107	1.8	13	2	3	_	134	10	60	42	16	6		13		2			1		
B NON-TRAFFIC	419	41	25 168 4	128	19	16	2	3	-	134 47 181	11	60 22 82	42 17 59	55	7		13 14 27		3	10	b	5°		i
TOTAL (AE138)	3 14	6	147	2	18	13	-	2	ī	3		í				-	1		-	i i				
F T AE 139 OTHER TRANSPORT ACCIDENTS.	105 433	29 18 47	172	21 130	19	3	5	5	=	137 47 184	10 1 11	63 22 85	42 17 59	16 6 22	6 1 7	-	14 14 28		2 1 3	5 11	3 5 6	3 5 H		1 1 2
II DROWNINGS INVOLVING SMALL M BOATS (850)	3 2	-	1	ī	1	-	-	-	_	ı	-	_	1		-		_	~						
8 DROWNINGS INVOLVING OTHER III WATERCRAFT (851) F	5 -	-	2	i -	-	-	-	-	-	2	1	=	ī	- 1	-	-			-					ī
C OTHER TRANSPORT	24		-	-			-	Ĩ	-	- 18	-	Ξ.			-	-	-	-	-					
TOTAL (AE139)	25	1	4	1	2	-	1	-	-	18	Ē	14	3 - 3	1	-		1	Ē				1 - 1		
F T	27 3	1 2	5 1 6	1	3	-	1	Ē	-	19 1 20	1	14	4	1 - 1	Ē		1 - 1	Ē	-	Ē		1 1		1 - 1
AÉ 140 ACCIDENTAL POISONING B F T	35 7 42	1 - 1	11 1 12	3 1 II	5 - 5	3 - 3	-	Ē	-	20 5 25	-	10 4 14	9 1 10		1 - 1		i i	-	1	18 - 2	1			
AE 141 ACCIDENTAL FALLS # F	71 61 132	1 2 11	18 2 20	3 2 5	-	5	3 -	7 - 7	-	36 13 49	Ē	5	6	31 1	17 10 27		16 44 60	=		ī	i	16 42 58		
AE 142 ACCIDENT CAUSED BY II MACHINERY II	20 1 21	1	*	3	1 -	-	-	Ė	-	11	1	3 -	į	1	-		1				-	1		
AÉ 143 ACCIDENT CAUSED BY FIRE AND M EXPLOSION F	36 18 54	10	7 1	3 1	2	-	1	1	-	11 16 5	1	7	6	1	1		2	-	1			1		1
AE 144 OTHER ACCIDENTAL BURNS H	54 2 II	19	-	-	- 1	-	-	1	-	21	1 -	11 k	7	-	1		5		-	2		- 1		1 -
AE 145 ACCIDENT CAUSED BY FIREARM M	3	1	9	1	1	-	-	-	-	2		î	1		1		1					-		
A€ 146 ACCIDENTAL DROWNING III	14	3	9	13	1 2				-	2		ī	i	-	- 3									
F T	9 57	2.2	16	13	2	2	1	-	-	13 2 15		10	2	2	1		į			1		i		1
AE 147 ALL OTHER ACCIDENTAL CAUSES II	48 21 69	21 12 33	14	4	6	4	ī	-	-	12 4 16	i	4 11	1	1	1		1			t -				
TOTAL (AEL38-AE147) #	629 276 855	87	231 35	147	38	25	8	13	-	268 77 345	14	116	80 20	70 8 8 3 R	2 P 1 1		40 64 104		4	9	4	73 49 72		3 2
AE 148 SUICIDE	855 110	135	266 50	29 176	40	13	8	13	-	54	1.7	24	20 100 24	3 R	39		104		1	18	1	72	-	5
AE 149 HOMICIDE	137	2	52	18	18	13	2	Ī	-	20 74	4	14 38 3	5.8	3			11112		1 2	4	- i			t
AE 150 WAR INJURIES	23 14 37	10	7	3	3	î -	-	-	-	17	1	2 5	10	i		-	?							1
TOTAL (AE138-AE150) M	-	-	-	-	-	-	-	Ī	2	-				- :	-				-		-			-
F T	762 267 1,029	92 55 147	286 39 325	165 32 197	58 3 61	39 4 43	10	14 - 14	-	335 101 436	1 B 4 22	143 51 194	113 26 139	33 9 42	28 11 39	-	45 69 114	=	2 9	10 12 22	11	23 49 72	Ē	4 3 7
AN 138 FRACTURE OF SKULL M	138	18	61	39	7	7	4	4	-	54	6	26	14	8	-	-	5	-	1	2	ī	?		
T AN 139 FRACTURE OF SPINE AND TRUNK III	167	26	70 15	48 12	7	7	4	4	-	63	7	27 8	19	10	- 2		8		-	1	i	3	-	
AN 140 FRACTURE OF LIMBS H	35 17 52	1	19	16	2	1 2	-	- 1	-	24	-	4 12 1	9	1	2		8	-		í	1 0	15		1
F	55 101		13	1 4	-	3	=	6	-	13	-	3 4	3	1 4	55	-	15 39 54	-	-		2	52		2
AN 141 DISLOCATION METHOUT H FRACTURE I	-	-	-	=	:	=	-	=	=		-	-	-	- 5	-	-							-	
AN 142 SPRAINS AND STRAINS M F T	1 - -	-		Ē	Ē	Ξ	Ē		Ē	1		- 1	1			-	:		-					
AN 143 OTHER HEAD INJURY M F T	127 27 154	10 7 17	59 4 63	30 4 34	14	11	2 - 2	2 - 2	-	55 11 66	3 1 4	19 II 24	22 3 25	7 ? 9	4 - 4	i	3 4 7		1	1 1 2		1 3 =		1 1
AN 144 INTERNAL INJURY M F	187 46 233	14 8 22	71 9 80	46 6 52	14 1 15	8 2 10	2 - 2	1 - 1	-	93 23 116	5 - 5	40 13 53	36 U 42	9 3 12	3 1 4		8 15		2 1 3	3 6 7	2 - 2	2 1 3	-	
AN 145 OPEN WOUNDS N	14 3 17	1	5	5 - 5		Ē		-	-	8 3 11	-	4 2 6	2	-	II		-						i	
AN 146 SUPERFICIAL INJURY OR M CONTUSION F	1.7 - 2	1	5	-	=	~	-	-	-	i	-	-	-		î	-	-		į		-	1 1	0	
AN 147 FOREIGN BODY THROUGH M ORIFICE	? 16	10	- 5 1 6	3	2	-	-		-	1	-	1	-		-		-			-		-	2	
ORIFICE F T	20 35	13		3	2	1 t	1	1	-	17	1	10	4	-	3		- 2 3 5			1		1 2	-	1
F T AN 149 POISONENGS	35 17 52	7 16	6 2 III	2 4	2	-	1 -	î -	-	5 22 42 18	1	14	5 20	1	2	-			2	2	2	3	-	ī -
F T	72 33 105	6	3 24	12	8	4	-	-	-	60	1	19 11 30	6 26	1	î	-	6 II 12		1 3	5	2 4	-	-	
AN 150 OTHER H	91 34 125	27 15 42	32 5 37	16 3 19	2	6	1	-	Ξ	11 39	1 3	23	7	5	1	-	45	-	1	2 2	-	23	-	3
TOTAL (AN138-AN150) M F T	762 267 1.029	92 55 147	286 39 325	165 32 197	58 3 61	4 43	10	14	=	335 101 436	18	143 51 194	113 26 139	33 9 42	28 11 39	-	114	Ē	2 9	10 12 22	6	49 72	=	3 7
ALL CAUSES M F T	5,895 3,628 9,523	476 362 858	1.031 212 1.243	193 54 247	95 20 115	211 53 264	194 25 219	338 60 398	-	3,289 1,384 4,673	23 13 36	298 194 492	1.033 482 1.585	326	1,066 369 1,435	-	1.063 1.644 2.707	Ē	16 11 27	90 139 229	160 322 482	797 1.172 1.969	Ī	36 6 42

TABLE 10
DEATHS BY CAUSE, SEX AND MONTH OF DEATH, ALBERTA, 1967

LIST		INTERMEDIATE LIST M (SEVENTH REVISION)	TOTAL	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
		I. INFECTIVE AND PARASITIC DISEASES.													
		TUBERCULOSIS (A1-A5).													
	1	RESPIRATORY.													
	٨	ACTIVE M	6	2 - 2	=	2 1 3	2 - 2	2 1 3	2 - 2	1 1 2	3 1 4	2 - 2	3 1 4	1 1	2 1 3
	Ð	INACTIVE (002.2, 008.2) M F T	1 2 3	-	=	=	- 1 1	=	Ξ	-	- - -	1 1	- 1 1	-	=
		TOTAL (A1) M	8	2 - 2	-	2 1 3	2 1 3	2 1 3	2 - 2	1 II 2	3 1 4	3 - 3	3 2 5	1 1	2 1 3
A	2	MENINGES AND CENTRAL M NERVOUS SYSTEM F		-	-	=	-	- -	-	-	-	-	=	=	=
A	3	INTESTINE, PERITONEUM AND MESENTERY	-	-	-	- - -	-	-	-	-	-	=	=	-	=
A	4	BONE AND JOINT P	-	=	-	-	Ē	Ξ	-	=	-	-	-	-	=
A	5	OTHER FORMS	1	=	=	=======================================	=	- 1 1	1 - 1	=	-	-	-	=	-
		TOTAL (A1-A5)	9	2 - 2	Ξ	2 1 3	2 1 3	2 2 4	3 - 3	1 1 2	3 1 4	3 - 3	3 2 5	1 7	2 1 3
		SYPHILIS (A6-A10).													
	6	CONGENITAL	- 1		_	-	_	-	-	-	-	_	-	-	-
		F	- r -	_	_	_	_	_	_	_	_	_	_	_	_
А	7	EARLY		-	-	-	-	-	-	-	-	-	-	-	-
		F 1	- r -	_	_	_	-	-	_	-	_	_	-	_	-
A	8	TABES DORSALIS		-	-	-	-	-	-	-	-	-	-	-	=
	9	GENERAL PARESIS	- -	-	-	-	-	-	-	-	=	-	-	-	=
	10	OTHERS	4 6	1	_	1	1	_	_	1	_	1	1	_	_
			- T 6	1	-	1	1	-	_	1	_	1	ī	_	
		TOTAL (A6-A10)	м 6	1	-	1	1	_	_	1	-	1	1	-	_
			F - 6	_ 1	-	1	1	-	_	1	-	- 1	- 1	_	_
A	11	GONOCOCCAL INFECTION	н –	-	-	_	_	_	_	-	_	_	_	-	_
			F – T –	_	-	-	_	_	-	-	-		-	_	-
	12		м	-	-	-	-	-	-	-	-	-	-	-	-
			F - T -	_	_	-	_	-	-	-	-	-	-	-	_
	13	PARATYPHOID AND OTHER	M	-	-	-	-	-	-	-	-	-	-	-	-
		SHEITOHEEEN	- T -	-	_	_	_	-	-	_	_	-		-	-
A	14	CHOLERA	M	-	_	_	-	_	-	-	_	Ξ	-	-	-
			т –	_	-	-	-	-	-	-	-	-	-	-	-
A	15	BRUCELLOSIS	M –	_	-	-	-	_	_	-	_	_	Ξ	-	-
			ī -	-	-	-	-	-	-	-	-	-	-	-	-
Α	1.6	DYSENTERY	M - F -	-	_	-	_	-	-	_	-	-	_	_	-
			т -	-	-	-	-	-	-	-	-	-	-	-	-
	17	7 SCARLET FEVER	M - F -	-	_		_	_	-	-	-	-	_	-	-
			т -	-	-	-	-	-	-	-	-	-	-	-	-
	18		M - F -	_	_	-	_	_	-	_	_	-	_	_	-
			т –	-	_	-	-	-	-	-	-	-	-	-	-

TABLE 10

DEATHS	BY	CAUSE,	SEX	AND	MONTH	OF	DEATH	ALRERTA	1067
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	_			DEAT	HS BY C	AUSE,	SEX AND	TOOM C	H OF D	EATH,	ALBERTA	. 1967					
NC	١.		CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)		TOTAL	JAN.	FE8.	MAR.	ARR.	MAY	JUNE	JULY	AUG.	SEPI.	OCT.	NOV.	DEC.
A	1	19	ERYSIPELAS	M F	_	_	-	-	_	-	-	-	-	-	_	-	-
				T	-	-	-	-	_	_	-	_	_	_	_	_	_
A	2	20	SEPTICAEMIA AND PYAEMIA	M	2	-	-	-	-	_	_	_	_	_	_	_	2
				Ť	2	_	_	1 1	-	_	_	-	1	-	_	_	- 2
A	2	21	DIPHTHERIA			-	-	_	_	_	_	_				_	
				F	_	_	_	_	_	-	-	-	-	-	-	_	-
A	2	22	WHOOPING COUGH	м	_	_	_		_				_	_	_	_	_
				F	3	-	_	-	_	_	_	-	1	1	_	_	1
	2	2	MENINGOCOCCAL INFECTIONS				_	-	-	_	_	_	1	1	-	-	1
	Ī			F	1	_	_	_	_	1	1 -	_	_	_	_	_	_
A	,		DI ACHE	T	2	_	_	-	_	1	1	-	-	-	-	-	-
^	-		PLAGUE	F	-	_	_	_	_	_	_	_	_	_	_	_	-
				T	-	-	-	-	~	~	-	-	~	-	-	-	-
A	2	25	LEPROSY	F	_	-	_	-	-	-	_	-	-	-	-	-	-
				T	-	-	-	-	-	-	-	-	-	-	-	-	-
A	2	26	TETANUS	M F	_	_	-	-	-	-	-	-	-	-	_	-	-
				T	-	-	-	-	-	-	-	-	_	-	_	-	-
A	2	27	ANTHRAX		-	-	-	-	-	-	-	-	-	-	-	-	_
				F T	-	_	_	-	_	-	-	-	_	_	_	_	_
A	2	8	ACUTE POLIOMYELITIS		-	-	_	_	_	_	_	-	_	_	_	~	
				F T	-	_	_	_	_	_	_	-	-	_	_	_	_
A	2	9	ACUTE ENCEPHALITIS	М	4	_	1	-	1	_	_	-	1	_	1	_	_
				F	2 6	_	- 1	_	1	-	-	_	1	_	1	-	2 2
	2	ın	LATE EFFECTS OF POLIO	M	_	-	_		_				1		1		2
			MYELITIS AND ENCEPHALITIS	F	-	_	-	-	_	-	_	-	-	_	-	-	-
				т	_		_	_	_	_	-	_	_	_	-	_	_
^	3	1	SMALLPOX	F	_	_	Ξ	-	-	_	_	-	-	_		-	_
				Ť	-	-	-	-	-	-	-	-	-	-	-	-	-
A	3	32	MEASLES	H F	1 5	1	1	1	_	_	1	_	_	1	_	1_	_
				T	6	1	1	1	~	-	1	-	-	1	-	1	-
A	3	13	YELLOW FEVER	M F	-	_	_	_	_	-	-	-	-	_	-	_	_
				T	-	-	-	-	-	-	-	-	-		-	-	-
A	3	34	INFECTIOUS HEPATITIS	M	2 2	-	_	1	-	_	-	2	-	1	-	_	-
				T	4		-	1	-	-	-	2	-	1	-	~	-
A	3	35	RABIES	H	-	-	-	-	-	-	_	-	-	_	-	-	-
				ī	-	~	-	-	-	-	-	-	-	-	-	_	-
A	3	16	TYPHUS AND OTHER RICKETT-	М	-	-	-	-	-	-	-	-	-	-	-	-	-
			SIAL DISEASES	T	-	=	-	-	-	-	_	-	-	_	-	_	-
A	3	37	MALARIA		-	-	-	-		-	-	-	-	-	_	-	-
				F T	_	_	_	-	_	-	-	-	_	-	-	_	-
	3	8	SCHISTOSOMIASIS	н	_	-	-	-	-	-	-	_	_	-	_	-	-
				F	_	_	_	_	_	_	-13	-	-	-	_	-	-
A	3	19	HYDATID DISEASE	5	-	-	-	-	-	-	_	-	-	-	-	-	-
				F T	_	_	_	-	_	_	_	_	-	-	_	-	_
A	4	0	FILARIASIS	М	_	_	-	_	-	-	-	-	-	-	-	-	-
				F T	_	_	_	_	_	-	_	_		~	_	-	_
	4	1	ANKYLOSTOMIASIS	м	_	-	_	-	-	_	-	-	_	_	_	_	_
	ľ			F	-	-	_	-	_	_	_	-	-	_	_	-	-
A	1	2	OTHER DISEASES DUE TO		_	_	_	_	_	~	_	_	_	_	_	_	_
-	ĺ		HELMINTHS	Ē	=	-	-	_	_	_	_	_	_	_	-	-	_
			OT USB	М.		1		_	_		_		_	-	_	_	1
A	4	3	OTHER	M F	2 5	1		-		-	-	_	1	1		-	2
				T	7	2	-	_	_	-		2					3
			TOTAL (A1-A43)	M F	42 29	2	1	3	1	3	1	3	4	5	5 2	2	5
				T	71	6	2	7	5	5	5	5	8	8	7	2	11

TABLE 10

DEATHS BY CAUSE, SEX AND MONTH OF DEATH, ALBERTA, 1967

LIST NO.	CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)		TOTAL	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OC T.	NOV.	DEC.
	II. NEOPLASMS.														
	MALIGNANT NEOPLASMS (A44-A59	)													
m 44		M F T	21 7 28	4 - 4	3 1 4	2 1 3	2 1 3	2 - 2	-	2 1 3	=======================================	1 - 1	1 1 2	- 2 2	4 - 4
A 45	OESOPHAGUS	M F T	22 8 30	3 1 4	2 1 3	4 - 4	3 1 4	3 2 5	1 2 3	3 - 3	-	2 - 2	1 1	1 1	=
A 46	STOMACH	M F T	115 55 170	10 1 11	6 3 9	3 11	6 2	15 4 19	4 13	7 2 9	7 7 14	10 6 16	19 7 26	9 17	10 7 17
A 47		M F T	94 96 190	7 7 14	14 5 19	7 9 16	10 4 14	7 11 18	7 8 15	6 10 16	10 6 16	11 5 16	4 7 11	5 12 17	6 12 18
A 48	WEG.O. BEFFERENCE	M F T	51 31 82	5 4 9	5 3 8	4 2 6	3 2 5	4 1 9	7 3 10	3 2 5	9 1 10	1 5 6	4 4 8	4 4 8	2 - 2
A 49		×	15	-	1	3	1	1	- 1	1	-	1	1	2	3
		F T	15	_	1	3	1	1	1	1	_	1	1	2	3
M 50	TRACHEA, BRONCHUS, AND LUNG NOT SPECIFIED AS SECONDARY		209 42 251	15 1 16	15 3 18	15 2 17	21 4 25	25 3 28	16 7 23	20 6 26	15 3 18	13 4 17	16 1 17	27 4 31	11 4 15
A 51	BREAST	M F T	1 155 156	18 18	11 11	22 22	14 14	- 14 14	11 11	1 # 9	10 10	13 13	11 11	- 7 7	16 16
A 52	CERVIX UTERI	F	31	3	7	-	3	2	1	2	2	1	1	3	6
Λ 53	UTERUS. OTHER PARTS	F	18	2	1	2	2	1	1	_	2	2	1	2	2
A 54	PROSTATE	н	99	9	9	5	5	4		9	13	8	10	12	7
<b>a 5</b> 5	SKIN	M F T	14 6 20	3 3 6	1 1 2	2 - 2	3 - 3	1 - 1	2 - 2	1 1 2	1 - 1	-	-	-	- 1 1
A 56	BONE AND CONNECTIVE TISSUE	M F T	10 10 20	1 3 4	- 1 1	1 1 2	1 - 1	1 1 2	- -	-	1 1 2	1 - 1	1 1 2	2 - 2	1 2 3
A 57	OTHER AND UNSPECIFIED SITES.														
	22222445 222445				-		~								
*	(155-159)	F	96 70 166	11 8 19	5 3 8	6 14	7 8 15	6 8 14	7 3 10	11 6 17	6 7 13	9 8 17	10 4 14	8 5 13	4
В	(160, 164, 165)	F	3	-	-	1	-		-	= = = = = = = = = = = = = = = = = = = =	= = =	1	-	1	= =
С	(180. 181)	M F T	68 27 95	3 6	6 1 7	5 3 II	10 3 13	3 2 5	7 3 10	4 1 5	6 5 11	4 2 6	5 1 6	9 3 12	6 - ii
C	) BRAIN AND NERVOUS SYSTEM (193)	M F T	33 19 52	6 2 8	4 2 6	1 1	5 1 6	1 6 7	2 - 2	2 1 3	2 - 2	2 3 5	1 1 2	4 1 5	1 5
E	OTHER	M F T	36 97 133	3 7 10	2 7 9	2 5 7	1 8 9	10 12	3 4 7	2 15 17	7 11	5 7 12	5 7 12	3 11 14	9
	TOTAL (A57)	M F T	236 213 449	23 20 43	17 13 30	16 15 31	23 20 43	12 26 38	19 10 29	19 23 42	18 19 37	21 20 41	21 13 34	25 20 45	22 14 36
A 58	B LEUKAEMIA AND ALEUKAEMIA	M F T	56 31 87	4 1 5	2 2 4	4 3 7	3 2 5	7 4 11	6 4 10	7 2 9	4 3 7	3 3 6	6 3 9	6 1 7	4 3 7
å 59	P LYMPHATIC AND HAEMATOPOIETI SYSTEM.														
-	HODGKIN S (201)	M F T	19 7 26	1 1	2 - 2	2 1 3	3 II 4	2 - 2	3 II 4	1 1 2	1	=	1 1 2	2 - 2	2 1 3
1	B OTHER	M F T	44 23 67	4 2 6	3 3 6	3 2 5	2 5 7	2 - 2	7 2 9	1 - 1	6 2 8	4 1 5	5 2 7	2 2 4	5 2 7
	TOTAL (A59)	M F T	63 30 93	4 3 7	5 3 8	5 3 8	5 6 11	4	10 3 13	2 1 3	7 2 9	4 1 5	6 3 9	4 2 6	7 3 10
	TOTAL (A44-A59)	H F T	1,006 733 1,739	88 67 155	80 55 135	76 63 139	86 61 147	86 69 155	86 54 140	81 58 139	85 56 141	76 60 136	89 54 143	96 66 162	77 70 147

TABLE 10

DEATHS BY CAUSE, SEX AND MONTH OF DEATH, ALBERTA, 1967

LIST NO.	CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)	TOTAL	JAN.	FEB.	MAR.	APR=	MAY	JUNE	JULY	AUG.	SEPT.	0C T.	NOV.	DEC.
a 6	O BENIGN AND UNSPECIFIED M F T	9 9 18	1 1 2	1 1 2	1 2 3	2 2	1 - 1	$\frac{1}{1}$	1 2 3	-	-	=	2 - 2	1 1 2
	TOTAL (A44-A60) # F	1,015 742 1,757	89 68 157	#1 56 137	77 65 142	86 63 149	E7 69 156	87 54 141	82 60 142	85 56 141	76 60 136	#9 54 143	98 66 164	78 71 149
	III, IV. ALLERGIC, ENDOCRINE METABOLIC AND BLOOD DISEASES													
A 6	1 NON-TOXIC GOITRE M F T	= =	=		-	=	<u>-</u>	-	-	-	-	=	-	
<b>A</b> 6	2 THYROTOXICOSIS # F T		-	=	-	- - -	- - -	-	-	-	-	- - -	- - -	-
A 6	3 DIABETES MELLITUS M F T	90 89 179	6 11 17	5 7 12	5 7 12	7 III 15	9 4 13	14 5 19	7 4 11	10 10 20	7 15	2 III 10	6 9 15	11 9 20
<b>a</b> 6	4 NUTRITIONAL DEFICIENCY M STATES F	3 - 3	- - -	=======================================	2 - 2	-	1 1	-	-	-	-	-		-
A 6	5 ANAEMIAS F T	11 6 17	1	2 - 2	2 - 2	1 - 1	-	1 1 2	1 - 1	- 1 1	1 - 1	1 2 3	2 1 3	-
A 6	6 OTHER F	37 25 62	2 11 3	3 2	<b>4</b> 2 6	4 2 6	5 2 7	1 2 3	3 3 6	2 2 4	3 1 4	5 4 9	2 2 4	3 2 5
	TOTAL (A61-A66) # F T	141 120 261	8 13 21	10 9 19	13	12 10 22	15 m 21	16 III 24	11 7 18	12 13 25	12 8 20	8 14 22	10 12 22	14 11 25
	V. MENTAL. PSYCHONEUROTIC AN PERSONALITY DISORDERS.													
<b>A</b> 6	7 PSYCHOSES M F T	4 3 7	-	- 1 1	-	1 1	=	1 - 1	1 1 2	-	1 1 2	=	=======================================	- - -
<b>A</b> 6	8 PSYCHONEUROTIC AND PERSONA- M LITY DISORDERS F	20 3 23	1 2	1 1	=	1 - 1	2 II 3	4 - 4	3 - 3	-	2 1 3	2 - 2	1	3 - 3
# 6	9 MENTAL DEFICIENCY F	-	-	- - -	-	=			-	-		-	-	-
	TOTAL (A67-A69) M F T	24 6 30	1 1 2	1 1 2	=	2 - 2	2 1 3	- 5	4 1 5	-	3 2 5	2 - 2	1	3 -
	VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS.													
A 7	70 CEREBROVASCULAR LESIONS M F T	549 470 1,019	58 43 101	43 43 86	42 28 70	35 41 76	49 38 87	52 33 85	61 40 101	38 46 84	42 51 93	37 29 66	48 39 87	44 39 83
A 7	71 NON-MENINGOCOCCAL M MENINGITIS F	3 3 6		-	1 1	-	$\frac{1}{1}$	1 1 2	1 - 1	-	-	-	-	1 1
A 7	72 MULTIPLE SCLEROSIS # F	4 10 14	1 1	1 1	1 1	=	1 3 4	1 1	1 1 2	- 1 1	1 1	1 1	-	1 1
A 7	73 EPILEPSY M F T	11 III 19	- 1 1	$\frac{1}{1}$	- - -	2 - 2	2 2 4	- 2 2	1 - II	1 - 1	2 3 5	-	1	1 1
A 1	74 INFLAMMATORY DISEASES OF # F T			-	Ē	=	=	-	-	-	-	=	- - -	-
Λ :	75 CATARACT M F T	-	-	-		-	-	-	= =	-	-	=======================================	-	-
Α .	76 GLAUCOMA M F T	-	=	-	-	- - -	-	-	-	-	-	-	-	-
A .	77 OTITIS MEDIA AND F MASTOIDITIS	3 1 4	-	-	-	=	-	=	1	-	1	-	-	1 1 2

TABLE 10
DEATHS BY CAUSE, SEX AND MONTH OF DEATH, ALBERTA, 1967

LIST NO.	a	CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)		TOTAL	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OC T.	NOV.	DEC.
A	78	OTHER	M F T	30 33 63	3 3 6	2 - 2	3 4 7	1 5 6	2 1 3	1 3 4	2 2 4	3 7 10	2 - 2	4 2 6	3 3 6	4 3 7
		TOTAL (A70-A78)	M F T	600 525 1.125	62 47 109	46 44 90	45 34 79	3E 46 84	55 44 19	54 40 94	67 43 110	42 54 96	47 55 102	42 31 73	52 42 94	50 45 95
		VII. DISEASES OF THE CIRCULATORY SYSTEM.														
		HEART DISEASE (A79-A83).														
Α 7	79	RHEUMATIC FEVER	M F T	-	-	-	=	-	-	Ē	=	-	-	-	=	=
A 6	30	CHRONIC RHEUMATIC	M F T	26 54 80	· 1 3 4	3 5 8	1 3 4	- 5 5	- 5 5	3 8 11	5 5 10	2 1 3	2 9 11	4 4 8	4 2 6	1 4 5
A 6	31	ARTERIOSCLEROTIC AND DEGENERATIVE	M F T	1,792 871 2,663	164 91 255	132 70 202	163 66 229	149 70 219	152 81 233	138 61 199	168 76 244	140 59 199	132 77 209	149 70 219	149 70 219	156 80 236
A 8	32	OTHER	M F T	92 72 164	10 5 15	6 12 18	10 9 19	6 11 17	10 6 16	7 5 12	7 6 13	3 2 5	8 3 11	6 4 10	8 3 11	11 6 17
Α 8	3 3	HYPERTENSIVE	M F T	33 37 70	1 7 8	4 2 6	2 2 4	3 1 4	3 3 6	2 3 5	3 5 8	- 2 2	6 5 11	4 3 7	4 4 8	1 1
		TOTAL (A79-A83)	M F T	1,943 1,034 2,977	176 106 282	145 89 234	176 80 256	158 87 245	165 95 260	150 77 227	183 92 275	145 64 209	148 94 242	163 81 244	165 79 244	169 90 259
m 8	34	HYPERTENSION	M F T	26 20 46	5 2 7	- 2 2	1 2 3	1 1	4 - 4	1 2 3	3 1 4	3 1 4	- 2 2	- 3 3	5 5 10	3 - 3
	35	ARTERIAL DISEASES	M F T	149 112 261	19 8 27	11 11 22	13 8 21	10 13 23	7 2 9	10 14 24	13 12 25	10 8 18	15 13 28	12 8 20	14 7 21	15 8 23
Α .	36	OTHER	M F T	40 26	1 3	1 -	1 2	2	3 4	5	1 2	4 2	6	6 2	7	3
			1	66	4	1	3	2	7	8	3	6	9	8	11	4
		TOTAL (A79-A86)	·	2.158 1.192 3.350	201 119 320	1 157 102 259	3 191 92 283	171 100 271	179 101 280	166 96 262	200 107 307	162 75 237	169 112 281	181 94 275	191 95 286	190 99 289
		TOTAL (A79-A86)  VIII. DISEASES OF THE RESPIRATORY SYSTEM.	M F	2+158 1+192	201 119	157 102	191 92	171 100	179 101	166 96	200 107	162 75	169 112	181 94	191 95	190
А	87	VIII. DISEASES OF THE	M F T	2+158 1+192	201 119	157 102	191 92	171 100	179 101	166 96	200 107	162 75	169 112	181 94	191 95	190
		VIII. DISEASES OF THE RESPIRATORY SYSTEM.	M F T	2.158 1.192 3.350	201 119 320	157 102	191 92	171 100	179 101 280	166 96 262	200 107	162 75 237	169 112 281	181 94 275	191 95 286	190 99 289
		VIII. DISEASES OF THE RESPIRATORY SYSTEM. ACUTE UPPER RESPIRATORY	M F T	2.158 1.192 3.350	201 119 320	157 102 259	191 92	171 100 271	179 101 280	166 96 262	200 107 307	162 75 237	169 112 281	181 94 275	191 95 286	190 99 289 1 1 2
л	88	VIII. DISEASES OF THE RESPIRATORY SYSTEM. ACUTE UPPER RESPIRATORY INFLUENZA	M F T M F T	2.158 1.192 3.350	201 119 320	157 102 259	191 92	171 100 271	179 101 280	166 96 262	200 107 307	162 75 237	169 112 281	181 94 275	191 95 286	190 99 289 1 1 2
A	88	VIII. DISEASES OF THE RESPIRATORY SYSTEM.  ACUTE UPPER RESPIRATORY  INFLUENZA	M F T M F T M F	2.158 1.192 3.350 6 3 9 8 4 12	201 119 320	157 102 259	191 92 283	171 100 271	179 101 280	166 96 262 1 - 1 2 - 2	200 107 307	162 75 237	169 112 281	181 94 275	191 95 286	190 99 289
A	88 89	VIII. DISEASES OF THE RESPIRATORY SYSTEM.  ACUTE UPPER RESPIRATORY  INFLUENZA	M FT M FT M FT M FT	2.158 1.192 3.350 6 3 9 8 4 12	201 119 320 1 -1 1  - 1 7 11	157 102 259	191 92 283	171 100 271 	179 101 280 - 1 1 1 1 2 3 1 2 9	166 96 262 1 1 1 2 - 2	200 107 307	162 75 237	169 112 281 1 - 1 1 - 2 2 - 3 9	181 94 275	191 95 286 1 1 2 2 2	190 99 289 1 1 2 1 - 1
A	88 89	VIII. DISEASES OF THE RESPIRATORY SYSTEM.  ACUTE UPPER RESPIRATORY  INFLUENZA  PNEUMONIA (A89-A91).  LOBAR  HRONCHO  ATYPICAL, OTHER,	MET MET MET MET MET	2.158 1.192 3.350 6 6 3 9 8 4 12 15 12 27 96 75 171	201 119 320 1 1 - 1 1 - 1 7 11 18	157 102 259 	191 92 283	171 100 271 	179 101 280  1 1 1  1 1 2 3 12 9 21 6 3	166 96 262 1 1 2 - 2 2 3 1 4 8 1 9 9	200 107 307	162 75 237	169 112 281 1 	181 94 275	191 95 286 1 2 - 2 1 1 1 2 - 2	190 99 289 1 1 1 2 1 - 1 1 2 3 3 11 8 19 5 5
A	88 89	VIII. DISEASES OF THE RESPIRATORY SYSTEM.  ACUTE UPPER RESPIRATORY  INFLUENZA	MET MET MET MET MET ME	2.158 1.192 3.350 6 3 9 8 4 12 15 12 27 96 75 171 59 42 101	201 119 320 1 - 1 - 1 - 1 7 11 18 4 4 8 8 12 15	157 102 259 	191 92 283 	171 100 271 2 	179 101 280  1 1 1 2 3 12 9 21 6 3 9	166 96 262 1 1 2 - 2 2 3 1 4 8 1 9 4 3 7	200 107 307	162 75 237 1 1 - 1 2 - 2 5 5 10 3 5 8 8 10 10	169 112 281 1 	181 94 275	191 95 286 1 - 1 2 - 2 10 8 18 7 4 11 18 13	190 99 289 1 1 2 1 2 3 11 8 8 19 5 5 10 17 15
A A	88	VIII. DISEASES OF THE RESPIRATORY SYSTEM.  ACUTE UPPER RESPIRATORY  INFLUENZA  PNEUMONIA (A89-A91).  LOBAR  ATYPICAL, OTHER, UNSPECIFIED	MET MET MET MET MET MET	2.158 1.192 3.350 6 3 9 8 4 12 15 12 27 96 75 171 59 42 101	201 119 320 1 - 1 - 1 - 1 7 11 18 4 4 8 8 12 15	157 102 259 	191 92 283 	171 100 271 2 	179 101 280  1 1 1 2 3 12 9 21 6 3 9	166 96 262 1 1 2 - 2 2 3 1 4 8 1 9 4 3 7	200 107 307	162 75 237 1 1 - 1 2 - 2 5 5 10 3 5 8 8 10 10	169 112 281 1 	181 94 275	191 95 286 1 - 1 2 - 2 10 8 18 7 4 11 18 13	190 99 289 1 1 2 1 2 3 11 8 8 19 5 5 10 17 15
A A A	88 90 91	VIII. DISEASES OF THE RESPIRATORY SYSTEM.  ACUTE UPPER RESPIRATORY  INFLUENZA  PNEUMONIA (A89-A91).  LOBAR  ATYPICAL, OTHER,  UNSPECIFIED  TOTAL (A89-A91).  BRONCHITIS (A92, A93).	MET MET MET MET MET MET MET	2.158 1.192 3.350 6 3 9 8 4 12 15 12 27 96 75 171 5 9 9 29 29 2	201 119 320 1 - 1 - 1 - 1 7 11 18 4 4 8 8 12 15	157 102 259 	191 92 283 	171 100 271 2 	179 101 280	166 96 262 1 1 2 - 2 2 3 1 4 8 1 9 4 3 7	200 107 307	162 75 237 1 1 - 1 2 - 2 5 5 10 3 5 8 8 10 10	169 112 281 1 - 1 1 1 2 3 9 9 12 6 1 7 7 7 10 11 21	181 94 275	191 95 286 1 - 1 2 - 2 2 10 8 18 7 4 11 18 13 31	190 999 289 1 1 2 1 2 3 11 8 8 19 5 5 5 10 17 15
A A A	88 90 91	VIII. DISEASES OF THE RESPIRATORY SYSTEM.  ACUTE UPPER RESPIRATORY  INFLUENZA  PNEUMONIA (AR9-A91).  LOBAR  ATYPICAL, OTHER, UNSPECIFIED  TOTAL (A89-A91)  BRONCHITIS (A92, A93).	MET MET MET MET MET MET MET MET MET	2.158 1.192 3.350 6 3 9 8 4 12 15 12 27 96 75 171 59 42 101 170 129 299	201 119 320 1 1 - 1 1 - 1 1 7 11 18 4 4 8 8 12 15 27	157 102 259 	191 92 283 	171 100 271 2 	179 101 280  -1 1 1 1 2 3 12 9 21 6 3 9 19 14 33	166 96 262 1 1 2 -2 2 3 1 4 8 1 9 4 3 7 7 15 5 5 20	200 107 307	162 75 237 1 1 - - 1 2 - 2 5 5 5 10 10 20	169 112 281  1	181 94 275	191 95 286 1 2 -2 10 8 18 7 4 11 18 13 31	190 999 289 1 1 1 2 1 2 3 11 8 8 19 5 5 5 10 17 17 18 32

TABLE 10
DEATHS BY CAUSE, SEX AND MONTH OF DEATH, ALBERTA, 1967

LIST A	CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)		TOTAL	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OC T.	NCV.	DEC.
A 95 E	EMPYEMA AND LUNG ABSCESS	M F T	2	-	-	-	-	-	-	-	1 -	- -	1 _	-	-
A 96 F		М	2	-	-	1	_	-	1	-	1	-	1 -	-	_
		F	3 5	1	_	1	-	_	1	-	-	1	-	1	-
A 97 C	OTHER	M F T	103 37 140	9 4 13	15 3 18	12 2 14	6 3 9	3 2 5	9 2 11	11 3 14	9 3 12	7 6 13	7 2 9	7 2 9	5 13
	TOTAL (A87-A97)	H F T	356 192	27 22	34 14	32 16	29 14	30 20	30	30 10	25 13	27 18	23 16	38 19	31
	IX. DISEASES OF THE DIGESTIVE SYSTEM.	'	548	49	48	4.8	43	50	38	40	38	45	39	57	53
A 98 (	DISEASES OF THE TEETH	М	-	-	-	_		-	-	-	_	_	-	-	-
		F T	-	_	_	-	_	_	_	-	-	_	-	_	-
A 99 t	JLCER OF THE STOMACH	F T	15 9 24	2 - 2	1 - 1	2 2	-	2 2 4	3 2 5	1 2 3	-	2 - 2	3 ~	1 - II	1 1
A 100 U	JLCER OF THE DUODENUM	M F	21 11	1	2	1	3 -	3	5	2		_ 1	1	- 2	3
4 101 /	GASTRITIS AND DUODENITIS	T	32	1	2	2	3	4	8	3	-	1	2	5	4
A TOT	DASTRITIS AND DUDDENTITS	F	1	-	-	_	_	-	-	-	1		-	-	_
A 102	APPENDICITIS	M F T	7 - 7	1 - 1	1 - 1	1 - 1	1 - 1	1 - 1	2 - 2	-	-	-	-	-	-
A 103	INTESTINAL OBSTRUCTION AND HERNIA	M F	36 23	4 3	2 3	2	3 3	3 2	3	3 2	1	2 -	2	8 2	3 2
A 104	GASTRO-ENTERITIS AND	T M F	59 20 36	7 3 3	1	2	6 1 1	5 - 6	2	5 2 3	2 2 4	1 2	1 7	3 1	5 2 4
	COLITIS	Т	56	6	4	3	2	6	3	5	6	3	8	4	6
A 105	CIRRHOSIS OF LIVER	M F T	48 29 77	4 1 5	4 2 6	6 2 8	2 6 8	1 5 6	5 4 9	3 5	5 - 5	4 - 4	9 5 14	3 1 4	3 - 3
A 106	CHOLELITHIASIS AND CHOLECY- STITIS	M F T	17 27 44	1 1 2	1 1 2	2 2	2 1 3	1 2 3	1 3 4	3 2 5	2 2 4	2 3 5	2 6 8	3	1 2 3
A 107	OTHER	M F T	43 20 63	3 2 5	5 2 7	5 2 7	5 2 7	8 1 9	1 1 2	2 2 4	3 1 4	1 2 3	4 - 4	? 1 3	4 4 11
	TOTAL (A98-A107)	H F T	208 155 363	19 10 29	17 11 28	17 11 28	17 13 30	19 19 38	22 17 39	15 15 30	14 8 22	12 III 20	22 20 42	18 9 27	16 14 30
	X. DISEASES OF THE GENITO- URINARY SYSTEM.		303	2,	20										
A 108	ACUTE NEPHRITIS	M F	2 _	-	-	-	1 -	-	-	-	-	1 -	-	-	-
A 100	CHRONIC AND OTHER NEPHRITIS	Т	30	- 2	- 2	- 2	1	1	1	1	- 4	1	3	4	4
A 109	CHRUNIC AND DINER MEFINITIS	F T	20 50	3 5	2	6	2 5	3	2	1 2	1 5	1 4	1 4	4	2 6
A 110	INFECTIONS OF KIDNEY	M F T	22 19 41	1 - 1	1 1 2	 4 4	3 - 3	2 1 3	2 1 3		- 4 4	2 1 3	4 2 6	3 2 5	4 3 7
A 111	CALCUL I	H F T	2 4 6		=	1 - 1	-	-	- 2 2	-	1 - 1		- 2 2	-	
A 112	HYPERPLASIA OF PROSTATE		27	2	2	2	3	2	1	4	3	1	3	2	2
A 113	BREAST	F	-	-	-	-	-	-	-	-		-		-	-
A 114	OTHER	T M	6	2	-	1 1	-	1	î	-	- 1	-	- 1	2 3	_ 1
		F T	11	3	1	2	-	2	1 4	- 5	1 8	7	10	5	10
	TOTAL (A108-A114)	M F T	89 54 1 <u>43</u>	7 4 11	5 4 9	15	10 2 12	6 4 10	5	1 6	6	2 9	6 16	5	6 16

					TABLE :		DEATH	ALDEDT	A 1067					
LIST A	CAUSE OF DEATH	DEATHS BY	CAUSE,	SEX AN	D MON	TH OF I	DEATH,	ALBERI	A, 1967					
NO.	INTERMEDIATE LIST A (SEVENTH REVISION)	TOTAL	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	XI. COMPLICATIONS OF PREG- NANCY, CHILDBIRTH, #ND PUERPERIUM.													
A 115	SEPSIS	F -	-	-	-	-	-	-	-	-	-	-	-	-
A 116	TOXAEMIA	F 2	-	1	-	-		-	-	-	-	-	1	-
A 117	HAEMORRHAGE	F 2	1	-	-	-	~	-	-	-	-	-	-	1
A 118	ABORTION WITHOUT SEPSIS OR TOXAEMIA	F -	-	-	-	-	-	-	-	-	-	-	-	-
₩ 119	ABORTION WITH SEPSIS	F ~	-	-	-	-	-	-	~	-	-	-	-	-
M 120	OTHER	F 1	1	-	-	-	-	-	-	-	-	-	-	-
	TOTAL (A115-A120)	F 5	2	1	-	-	-	-	-	-	-	-		1
	XII. XIII. DISEASES OF THE SKIN AND MUSCULOSKELETAL SYSTEM.													
A 121	SKIN INFECTIONS		-	-	-		1	-	-	-	-	1	-	-
		F 3 5	_	1 1	-	1 1	1	_	_	_	_	1	1	_
A 122	ARTHRITIS AND SPONDYLITIS	M 10	_	1	2	_	-	-	_	1	_	_	4	2
		F 8 18	1	1 2	2	_	1 1	-	_	1 2	2	_	2	- 2
A 123	RHEUMATISM		_		_		_	_	_	_		_	_	_
4 123	MICOUNT ISH CERES CONTRACTOR	F 2 T 2	-	-	1	-	-	1	-	-	-	-	-	_
	000000000000000000000000000000000000000		_	_	ı	_	_	1	-	_	_	_	_	_
m 124	OSTEDMYELITIS	M 1 F - T 1	_		-	-	-	-	-	-	1 1	_	=	-
A 125	ANKYLOSIS AND ACQUIRED		_	_	-	-	-	-	-	-	-	_	_	_
	DEFORMITIES	F -	_	_	_	_	-	_	_	_	Ξ	_	_	_
A 126	OTHER	M 7	1	_	_	1	_	1	1	_	_	_	3	_
		F 8 T 15	1	_	1	1 2	-	2	ī	2	-	1	3	1
	TOTAL (A121-A126)		1	1	2	1	I.	1	1	1	1	1	7	2
		F 21 T 41	1 2	2	2 4	2	1 2	3	1	3	2	1 2	10	1 5
	XIV. CONGENITAL MALFORMATIONS.													
A 127	MALFORMATIONS.	T 41												
	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI	T 41						4				2		3
A 127 A	MALFORMATIONS.	T 41												
	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI	T 41  E. H 3 F - T 3 M 2				-		1 1 -		1	- - -	1 - 1	10 - -	1 -
Α	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS	T 41  E. H 3 F - T 3						1 -			- - -	1 -	10 - -	1 -
A 8	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS	T 41  E. M 3 F - T 3 M 2 F 2 T 4 M 5				-		1 1	- - - 1 1		- - -	1 - 1	10 - -	1 -
A 8	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS	T 41  E. H 3 F 7 3  M 2 F 2 T 4		- - - 1 1		-		1	ī - - - 1	- - - 1	- - -	1 - 1 1 1	10 - -	1 - 1
A 8	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS	T 41  E. M 3 F - 7 T 3 M 2 F 2 T 4 M 5 F 7 T 7 M 49		1 1 1 - 1		-		1 1	1 - - - 1 1	1 1 1		1 - 1 1 1 1	10 - -	1 - 1
A 8	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS  WITH HYDROCEPHALUS  TOTAL (A127).	T 41  E. M 3 F - 7  M 2 F 2 T 4  M 5 F 7		1 1 1	-			1 1 1	1 	1 1 1 4 2		1 - 1 1 1 1 2		1 - 1 1 6 4
A B	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS  WITH HYDROCEPHALUS  TOTAL (A127).	T 41  BE.  M 3 F - 7 T 3  M 2 F 2 T 4  M 5 F 2 T 7  M 49 F 34 T 83		1 1 1 3	6 3 9		5	1 - 1 - 1 - 1 9 II 10	- - - 1 1 1 1 3 8 11	- - - 1 1 1 2 6	3 - - - - - - 3 2 5	1 - 1 - 1 1 1 2 2		1 
A B	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS  WITH HYDROCEPHALUS  TOTAL (A127)  CIRCULATORY SYSTEM	T 41  BE. M 3 F - 3 T 3 M 2 F 2 T 4 M 49 F 34 T 83 M 34 F 25	2	1 1 2 3 3 4 4 7	6 3 9 2 2 2	6 1 7	5 5 3 3 3	1 - 1 1 1 9 II 10 3 5	1 	1 1 1 2 6	3 2 5 2 2 2	1 - 1 1 1 2 2 3 5 5 - 2		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
A B	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS  WITH HYDROCEPHALUS  TOTAL (A127)  CIRCULATORY SYSTEM	T 41  EE. M 3 F - 3  M 2 F 2 T 4  M 5 F 2 T 7  M 49 F 34 T 83  M 34 F 25 T 59	2	1 1 1 3 3 4 4 4	6 3 9 2 2 4	6 1 7 3 2 5	5 5 3 3 6	1 - 1 1 9 1 1 1 1 1 1 5 8	1 1 1 1 1 3 8 11 1 1 2	1 1 1 2 6 6	3 2 5 2 2 4	1 - 1 1 1 1 2 2 3 5 5 - 2 2	10	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
A B	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS  WITH HYDROCEPHALUS  TOTAL (A127)  CIRCULATORY SYSTEM	T 41  H 3 F - 3  M 2 F 2 T 4  M 5 F 2 T 7  M 49 F 34  F 25 T 59  M 88  M 88  M 88  M 86	2 4 6 3 3 6 5 7	1 1 1 3 3 4 4 4 5 5 3	4 		2	1 - 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 2 2 4 10	1 1 1 1 2 6 6 6 6	3 2 5 2 2 4 5 5 4	1 - 1 1 1 2 2 3 5	10 	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
A B	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS  WITH HYDROCEPHALUS  TOTAL (A127)  CIRCULATORY SYSTEM	T 41  M 3 F - 7 T 3  M 2 F 2 T 4 M 5 F 2 T 7 M 49 F 34 T 83 M 34 F 25 T 59 M 88	2	1 1 1 3 3 3 4 4 5 5		6 1 7 3 2 5	5 5 3 3 6	1 - 1 1 - 1 - 1 - 1 - 1 - 1 - 1	1 	- - 1 1 1 2 6 6 1	3 2 5 2 2 4 5	1 - 1 1 1 2 2 3 5 5 - 2 2 2 3 3	10 	1 - 1 - 1 - 1 6 4 4 10 5 3 8 8 12
A 8 128 II 129	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS  WITH HYDROCEPHALUS  TOTAL (A127)  CIRCULATORY SYSTEM  TOTAL (A127-A129)	T 41  E-  M 3 F - T 3  M 2 F 2 T 4  M 5 F 2 T 7  M 49 F 34 T 83 M 34 F 25 T 59 M 88 F 61 T 149	2 4 6 3 3 6 5 7	1 1 1 3 3 4 4 4 5 5 3	4 		2	1 - 1 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 2 2 4 10	1 1 1 1 2 6 6 6 6	3 2 5 2 2 4 5 5 4	1 - 1 1 1 2 2 3 5	10 	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
A 8 128 A 130	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS  WITH HYDROCEPHALUS  TOTAL (A127)  CIRCULATORY SYSTEM  TOTAL (A127-A129)  XV. DISEASES OF EARLY INFANCY.  BIRTH INJURY	T 41  E-  M 3 F - T 3  M 2 F 2 T 4  M 5 F 2 T 7  M 49 F 34 F 36 T 38  M 34 F 7  M 88 F 61 T 149  M 23 M 24 M 44	2 4 6 3 3 6 5 7 12	1 1 1 1 - 1 3 3 4 - 4 5 3 8		6 1 7 3 2 5 5 12	2 	1 - 1 - 1 - 1 1 0 3 5 8 8 13 4 1 9	1 		3 2 5 2 2 4 9 9	1 - 1 1 1 2 2 3 5 - 2 2 3 6 1 1 1 2	10 	1 1 1 1 - 1 - 1 - 1 - 1 - 1
A 8 128 A 130	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS  WITH HYDROCEPHALUS  TOTAL (A127)  CIRCULATORY SYSTEM  TOTAL (A127-A129)  XV. DISEASES OF EARLY INFANCY.  BIRTH INJURY	T 41  EE. M 3 F - 3  M 2 F 2 T 4  M 5 F 2 T 7  M 49 F 34  F 25 T 59  M 88  M 84  F 149  M 23  M 243	2 4 6 3 3 6 5 7 12	1 1 1 1 - 3 3 4 - 4 5 3 3	639 2224 888 13	6 1 7 3 2 5 5 1 2 3 1 4 8 2 2	2	1 - 1 - 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 		3 	1 - 1 1 1 2 2 3 5 5 - 2 2 3 6 8 1 1 1 2 6 6 2	10 	1 1 1 1 1 6 4 4 10 5 3 8 8 12 7 19 1 1 1 3 3
A 130 A 131	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS  WITH HYDROCEPHALUS  TOTAL (A127)  CIRCULATORY SYSTEM  TOTAL (A127-A129)  XV. DISEASES OF EARLY INFANCY.  BIRTH INJURY  POSTNATAL ASPHYXIA AND ATELECTASIS	T 41  EE.  M 3 F - 7 3 M 2 F 2 T 4 M 5 F 2 T 7 M 49 F 34 T 83 M 34 F 25 T 59 M 88 F 61 T 149  M 23 F 20 T 43 M 44 M 23 F 76	2 4 6 3 3 6 5 7 12	1 1 1 1 - 1 3 3 4 - 4 5 3	4 	6 1 7 3 2 5 1 2 3 1 4 8	2 5 - 5 3 3 6 11 3 1 1 1 2 2 3 2 5	1 - 1 1 1 9 II 10 3 5 8 8 13 d 19 19	1 		3 	1 - 1 1 1 2 2 3 5 5 - 2 2 2 3 6 1 1 1 2 2 6 2 8	10 	1 1 1 1 1 6 4 4 1 1 1 1 1 3 3 4 4
A 130 A 131	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS  WITH HYDROCEPHALUS  TOTAL (A127)  CIRCULATORY SYSTEM  TOTAL (A127-A129)  XV. DISEASES OF EARLY INFANCY.  BIRTH INJURY	T 41  EE. M 3 F 7 3  M 2 F 2 7 4  M 5 F 2 7 7  M 49 F 34 7  M 34 F 7 59  M 88 F 61  T 149  M 23 F 76  M 44 F 32 7  M 47 F 32 7  M 7 F 3 7	2 	1 1 1 1 - 1 3 3 4 - 4 5 3	4 		2 	1 - 1 - 1 9 II 10 3 5 8 8 13 6 19 4 1 1 5 2 2 2 4 2	1 		3 	1 - 1 1 1 1 2 2 3 5 5 - 2 2 2 3 6 ¶	10 	1 1 1 1 1 6 4 4 10 0 5 3 8 8 12 7 19 1 1 3 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1
A 130 A 131 A 132	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS  WITH HYDROCEPHALUS  TOTAL (A127)  CIRCULATORY SYSTEM  TOTAL (A127-A129)  XV. DISEASES OF EARLY INFANCY.  BIRTH INJURY  POSTNATAL ASPHYXIA AND ATELECTASIS  INFECTIONS OF NEWBORN	T 41  EE. M 3 F 3 T 3  M 2 F 2 T 4  M 5 F 2 T 7  M 49 F 34 T 83  M 25 T 79  M 88 R 61  T 149  M 23 F 20 T 43  M 44 F 32 T 76  M 47 F 32 T 76  M 7 F 3 T 10	2 	1 1 1 1 - 3 3 4 - 4 5 3 8			2 	1 - 1 1 9 1 10 3 5 8 13 4 1 5 5 2 2 2 4 4 2 - 2	1 1 1 1 1 1 1 2 4 10 14 5 5 1 6 6 2 - 2	1 1 1 1 2 6 6 6 6 6 7 11 2 7	3 	1 - 1 1 1 1 2 2 3 5 5 - 2 2 2 3 6 W	10 	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
A 130 A 131 A 132	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS  WITH HYDROCEPHALUS  TOTAL (A127)  CIRCULATORY SYSTEM  TOTAL (A127-A129)  XV. DISEASES OF EARLY INFANCY.  BIRTH INJURY  POSTNATAL ASPHYXIA AND ATELECTASIS	T 41  E-  M 3 F - T 3  M 2 F 2 T 4  M 5 F 2 T 7  M 49 F 34 F 25 T 59 M 88 F 61 T 149  M 23 F 20 T 43 M 44 F 32 T 76 M 7 F 3 T 10 M 5 F 4	2 4 6 3 3 6 5 7 12	1 1 1 1 3 3 4 4 5 5 3 8	4 		2 	1 - 1 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1 	1 1 1 1 2 6 6 6 6 6 7 1 1 2 7 1	3 	1 - 1 1 1 1 2 2 3 5 5 - 2 2 2 3 6 1 1 1 2 2 6 2 8 1 - 1 2 2 - 1	10 	1 1 1 1 1 6 4 4 10 0 5 3 8 8 12 7 19 1 1 3 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1
A 128  II 129  A 130  A 131  II 132	MALFORMATIONS.  SPINA BIFIDA AND MENINGOCELI WITHOUT HYDROCEPHALUS  WITH HYDROCEPHALUS  TOTAL (A127)  CIRCULATORY SYSTEM  TOTAL (A127-A129)  XV. DISEASES OF EARLY INFANCY.  BIRTH INJURY  POSTNATAL ASPHYXIA AND ATELECTASIS  INFECTIONS OF NEWBORN	T 41  E-  M 3 F - T 3  M 2 F 2 T 4 M 5 F 2 T 7 M 49 F 344 F 25 T 59 M 88 F 61 T 149  M 23 F 20 T 43 M 44 F 32 T 76 M 7 F 3 T 10 M 5 F 4 T 9	2 	1 1 1 1 - 1 3 3 4 - 4 5 3 8	6 3 9 2 2 2 4 H H H 13 5 5 10 1	6 1 7 3 2 5 5 1 2 1 0	2 	1 - 1 1 1 9 1 1 1 1 0 3 5 8 8 1 3 6 9 1 9 5 5 2 2 4 4 2 - 2 - 2	1 	1 1 1 2 2 6 6 6 6 11 2 1 3 4 4 7 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 	1 - 1 1 1 2 2 3 5 5 - 2 2 2 3 6 1 1 1 2 2 8 1 1 1 2 2 8 1 1 1 2 2 8 1 1 1 2 2 8 1 1 1 2 2 8 1 1 1 2 2 8 1 1 1 2 2 8 1 1 1 2 2 1 1 1 2 2 1 1 1 1	10 	1

TABLE 10

						TABLE 1									
		DEATH	IS BY C	CAUSE,	SEX AN	D MONT	H OF D	EATH,	ALBERT	A, 1967					
NO.	CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)		TOTAL	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
A 135	ILL-DEFINED	M F T	127 101 228	8 11 19	12 4 16	15 23	13 5 18	16 10 26	17 12 29	10 7 17	11 5 16	4 5 9	12	4 9	12
	TOTAL (A130-A135)	H F T	208 166 374	15 20 35	13 12 25	15 22	24	20 16	25 15	18	21	9	23 22 14	13 11 14	19 15 11
	XVI. SYMPTOMS, SENILITY AN ILL-DEFINED CONDITIONS.	10	311	3,	23	37	33	34	40	31	29	21	36	25	26
A 136	SENILITY WITHOUT PSYCHOSIS	M F T	18 21 39	- 1 1	1 1 2	2 4 6	2 3 5	1 1 2	2 1 3	3 1 4	2	3 5	- 2	- I	2 -
A 137	TLL-DEFINED AND UNKNOWN	M F T	166 72 238	16 3 19	18 5 23	17 5 22	14 10 24	7 6 13	11	14	13	15 10	13	1 15 4	13
	TOTAL (A136, A137)	M F T	184 93 277	16 4 20	19 6 25	19 9 28	16 13	iii 7	21 13 11	15 17 2	19 15 7	25 18 15	19	19 15 5	19 15 6
	XVII. ACCIDENTS, POISONING AND VIOLENCE.		211	20	29	25	29	15	24	19	22	33	21	20	21
	EXVII. EXTERNAL CAUSE.														
AE 138	MOTOR VEHICLE ACCIDENTS.														
А	TRAFFIC (810-825)	M F T	317 102 419	19 7 26	17 4 21	16 3 19	26 5 31	29 9 38	27 11 38	26 8 34	38 9 47	38 9 47	41 15 56	24 11 35	16 11 27
В	NON-TRAFFIC	M F T	11 3 14	1 1 2	1 1	- - -	1 1	1 1 2	-	- - -	2 - 2	- 1 1	? - 2	1 - 1	2 - 2
	TOTAL (AE138)	M F T	328 105 433	20 8 28	18 4 22	16 3 19	27 5 32	30 10 40	27 11 38	26 8 34	40 9 49	38 10 48	43 15 58	25 11 36	18 11 29
AE 139	OTHER TRANSPORT ACCIDENTS.														
A	DROWNINGS INVOLVING SMALL BOATS (850)	M F T	3 2 5		- - -		- - -	-	- 1 1	2 1 3	1 - 1	-	- - -	-	-
В	DROWNINGS INVOLVING OTHER WATERCRAFT (851)	M F T	-	- - -		-	-		- - -	-	-	-	- - -	-	-
С	OTHER TRANSPORT	M F T	24 1 25	2 - 2	1 - 1	1 1	2 + 2	3 - 3	5 ` — 5	3 1 4	2 - 2	2 - 2	1 1	2 - 2	- - -
	TOTAL (AE139)	M F T	27 3 30	2 - 2	1 	1 - 1	2 - 2	3 - 3	5 1 6	5 2 7	3 - 3	2 - 2	1 - 1	? - 2	-
AE 140	ACCIDENTAL POISONING	M F T	35 7 42	6 2 8	3 - 3	1 2 3	4 1 5	1 - 1	2 - 2	1 - 1	3 - 3	5 - 5	- 1 1	2 1 3	7  7
AE 141	ACCIDENTAL FALLS	M F T	71 61 132	4 3 7	4 2 6	7 4 11	6 3 9	2 7 9	6 14	7 6 13	9 6	5 6 11	3 7 10	3 2 5	13
AE 142	ACCIDENT CAUSED BY MACHINERY	M F T	20 1 21	·1 1	=	3 - 3	1 1	-	3 1 4	3 - 3	-	4 - 4	2 2	3 3	-
AE 143	ACCIDENT CAUSED BY FIRE AND EXPLOSION	M F T	36 18 54	1 - 1	-	5 5 10	5 - 5	1 - 1	3 2 5	4 1 5	4 1 5	5 1 6	- 1 1	5 2 7	3 5 8
AE 144	OTHER ACCIDENTAL BURNS	M F T	2 1 3	=	=	-	1 1	1 - 1	-	-	-	=	1 - 1	- - -	-
AE 145		M F T	1 4 - 1 4	- - -	- - -	1 1	2 - 2	-	-	1 - 1	- - -	1 - 1	2 - 2	5 - 5	2 - 2
AE 146	ACCIDENTAL DROWNING		48 9 57	1 - 1	-	-	1 - 1	2 - 2	8 2 10	20 3 23	10 2 12	3 2 5	1 - 1	2 - 2	-
AE 147	ALL OTHER ACCIDENTAL CAUSES	•	48 21 69	7 1 8	3 1 4	3 4 7	6 2	5 2 7	1 1	9 4 13	3 3 6	4 - 4	2 - 2	3 1 4	2 3 5
	TOTAL (AE138-AE147)	M F T	629 226 855	42 14 56	29 7 36	37 18 55	54 12 66	45 19 64	57 23 80	76 24 100	72 21 93	67 19 86	55 24 79	50 17 67	45 28 73
AE 148	SOICIDE SESSESSESSESSESSESSESSESSESSESSESSESSE	M F T	110 27 137	12 2 14	9 2 11	10 2 12	10 2 12	11 1 12	10 2 12	3 6 9	9 1 10	11 3 14	9 3 12	10 1	6 2 8
	•														

TABLE 10

DEATHS BY CAUSE, SEX AND MONTH OF DEATH, ALBERTA, 1967

LIST M CAUSE OF DEATH NO. INTERMEDIATE LIST A (SEVENTH REVISION)		TOTAL	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
AL 147 Hollies of the control of the	M F T	23 14 37	1 1 2	3 2 5	3 1 4	1 1	3 1 4	3 - 3	3 4 7	1 1	1 1 2	1 1	4 2 6	1 - 1
AE 150 WAR INJURIES	F T	- -	-	-	=	-		-	-	-	=		-	-
TOTAL (AE138-AE150)	F	762 267 •029	55 17 72	41 11 52	50 21 71	64 15 79	59 21 80	70 25 95	82 34 116	81 23 104	79 23 102	65 27 92	64 20 84	52 30 82
NXVII. NATURE OF INJURY.														
All 130 Pharmacone or other and a second	M F T	138 29 167	7 1 8	7 1 8	10 1 11	15 1 16	9 1 10	11 6 17	17 5 22	14 2 16	16 2 18	15 5 20	10 3 13	7 1 8
AN 139 FRACTURE OF SPINE AND TRUNK	H F T	35 17 52	2 1 3	3 2 5	1 1	5 11 6	4 3 7	5 1 6	4 - 4	5 3 8	2 2 4	1 1 2	3 1 4	2 2
AN 140 FRACTURE OF LIMBS	M F T	46 55 101	2 2 4	- 2 2	4 3 7	3 3 6	1 5 6	8 7 15	4 5 9	7 7 14	4 4 8	4 6 10	2 1 3	7 10 17
AN 141 DISLOCATION WITHOUT FRACTURE	M F T	=======================================	-	- -	-	- -	=	-	-		-	-	-	-
AN 142 SPRAINS AND STRAINS	₩ F T	1 1	=	=	- - -	1 1	=======================================	<u>-</u> -	=	- - -	-	-	-	-
AN 143 OTHER HEAD INJURY	M F T	127 27 154	9 1 10	10 1 11	10 2 12	7 2 9	10 2	9 1 10	12 4 16	8 3 11	19 3 22	13 2 15	15 3 18	7 3 10
AN 144 INTERNAL INJURY	M F T	187 46 233	11 3 14	8 2 10	14 2 16	16 2 18	17 4 21	19 3 22	11 4 15	19 2 21	16 5 21	24 9 33	18 5 23	14 5 19
AN 145 OPEN WOUNDS	M F T	14 3 17	- - -		2 - 2	=======================================	2 2 4	- -		3 - 3	1 1	1 1	2 1 3	3 - 3
AN 146 SUPERFICIAL INJURY DR CONTUSION	M F T	- 2 2	-	-	-	- -	1 1	- - -	-	-	1 1	=	-	=
AN 147 FOREIGN BODY THROUGH	H F T	16 4 20	5 1 6	1 1	1 1	- 1 1	3 1 4	1 1	2 - 2	1 1	1	1 1	-	1 1
AN 148 BURNS	M F T	35 17 52	1	-	3 5 8	2 1 3	4 1 5	3 1 4	4 - 4	4 1 5	5 1 6	2 - 2	3 2 5	5 9
AN 149 POISONINGS	H F T	72 33 105	13     21	1 9	3 4 7	8 2 10	6 - 6	4 2 6	2 7 9	4	7 3 10	2 4 6	6 1 7	9 1 10
AN 150 OTHER	M F T	91 34 125	5 - 5	4 2 6	2 4 6	7 2 9	5 1 6	10 4 14	26 9 35	17 4 21	8 2 10	2 - 2	5 3 8	3
TOTAL (AN138-AN150)	F	762 267 1,029	55 17 72	41 11 52	50 21 71	64 15 79	59 21 80	70 25 95	82 34 116	81 23 104	79 23 102	65 27 92	64 20 84	52 30 82
ALL CAUSES		5,895 3,628 9,523	510 337 847	431 277 708	479 298 777	483 291 774	491 315 WUA	510 289 799	538 306 844	481 272 753	470 324 794	486 293 779	523 296 819	493 330 823

TABLE 11

INFANT DEATHS AND HOSPITAL INFANT DEATHS BY OCCURRENCE AND RESIDENCE FOR CENSUS DIVISIONS AND INCORPORATED URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1967

		BY	TOTAL C	CCUR. R	ESID.	TOTAL BY	NT HOSPI TOTAL C	CCUR. R	ESID.
01	DIVISION 1	OCCUR. I	4E2ID* K	ESID. 0	CCUR.	OCCUR.	RESID. R	ESID. O	CCUR.
	BOW ISLAND								
040	MEDICINE HAT	8	7	1		8	7	1	
047	REDCLIFF TOTAL	8	1 8		1	8	1 8		1
02	DIVISION 2					0	0		
009	BROOKS	7	e						
	COALDALE LETHBRIDGE	1	5	2		5 1	3	2	
081	PICTURE BUTTE RAYMOND	17	16 1	3	2	16	15 1	3	2
056	TABER	3	2	2	1	3	2	2	1
	TOTAL	32	32	4	4	26	26	4	4
03	DIVISION 3								
	CARDSTON CLARESHOLM	1 2	1	1		1	1		
025	FORT MACLEOD MAGRATH	1		1		2 1	1	1 1	
	PINCHER CREEK TOTAL	1	2		1	1	2		1
0.4		11	13	1	3	8	10	1	3
	DIVISION 4								
	HANNA TOTAL	1 3	1 6	1	1	1 3	1 6	1	1 4
05	DIVISION 5						Ü		
020	DRUMHELLER	2	1	1		,			
057	THREE HILLS VULCAN	1		1	,	1		1	
000	TOTAL	4	2 11		7	1 3	2 10		1 7
.06	DIVISION 6								
	CALGARY	177	155	24	2	152	131	22	1
030	DIDSBURY HIGH RIVER	3	2	2	1	2	2	1	1
042	OLDS TOTAL	187	2 172	19	2 4	158	2 145	16	2
07	DIVISION 7							10	,
	CASTOR	1		1		1		1	
076	PROVOST STETTLER	3	2	1 3		3	2	1	
	WAINWRIGHT	4	4	1	1	6	3	3	1
	TOTAL	17	20	4	7	16	19	4	7
	DIVISION 8								
	INNISFAIL LACOMBE	1	2	1	2	1	2	1	2
	PONOKA RED DEER	3 16	3 13	1 3	1	3 14	3 11	1 3	1
072	RIMBEY ROCKY MOUNTAIN HOUSE	5	4	2	1	4	3	2	1
	SYLVAN LAKE TOTAL	29	34	1	6	23	28	1	6
0.9	DIVISION 9	2,	,	• .		23	20		
005	BELLEVUE BLAIRMORE		2		2		2		2
	CANMORE COLEMAN		4		4		4		4
	TOTAL	11	12	3	4	9	8	3	2
	DIVISION 10								
	CAMROSE LLOYDMINSTER %PT.<	5	6		1	4	5		1
085	TWO HILLS VEGREVILLE	3	1	2		3	1	2	
059	VERMILION VIKING								
014	TOTAL	13	21	1	9	12	20	1	9

#### TABLE 11

INFANT DEATHS AND HOSPITAL INFANT DEATHS BY OCCURRENCE AND RESIDENCE FOR CENSUS DIVISIONS AND INCORPORATED URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1967

	TOTAL TOTAL BY OCCUR. R	TOTAL OC	CUR. RE	SIO. -=	OCCUR. R	TOTAL OC BY -	CUR. RE	SID.
11 DIVISION 11	-							
017 DEVON 019 DRAYTON VALLEY 021 EDMONTON 026 FORT SASKATCHEWAN	5 186 1	3 127 2	3 65	1 6 1	5 172 1	3 115 2	3 63	1 6 1
034 LEDUC 051 ST. ALBERT 054 STOMY PLAIN 063 WETASKIWIN	. 2 1 198	1 1	2 1 56	1 1 9	1 1 180	1 1 134	1 1 55	1 1 9
TOTAL  12 DIVISION 12	170	171						
006 BONNYVILLE 015 COLD LAKE 039 FORT MCMURRAY 066 GRAND CENTRE 069 LAC LA BICHE 052 ST. PAUL TOTAL	1 5 11 5 4 35	1 2 7 2 4 2 40	4 5 1 2 2	1 1 2	1 5 11 5 4 31	1 2 7 2 4 2 36	4 5 1 2 2	1 1 2
13 DIVISION 13								
001 ATHABASCA 002 BARRHEAD 049 REDWATER 062 WESTLOCK	3 4	3	3 1 4		3 4 4	3	3 1 4	
TOTAL	16	24	1	9	11	18	1	8
14 DIVISION 14	 1	1			1	1		
022 EDSON 068 HINTON 077 WHITECOURT TOTAL	4 2 10	5 1 15	2 1 1	3 6	3 1 5	4 1 11	2	6
15 DIVISION 15								
078 BEAVERLODGE 023 FAIRVIEW 027 GRANDE PRAIRIE 067 GRIMSHAW	1 7	3 1 3	1 5	1 1	1 6 9	3 1 2	1 4 7	1
029 HIGH PRAIRIE 080 MANNING 038 MCLENNAN 043 PEACE RIVER	1 6	2	1 4		1 5	2	1 3	
082 SLAVE LAKE 083 SPIRIT RIVER 073 VALLEYVIEW TOTAL	1 1 1 47	1 1 1 56	1	1 9	1 1 35	1 1 43	1	1 8
PROVINCE TOTAL	621	615	12	6	528	522	11	5

TABLE 12

- SELECTED CAUSES OF INFANT DEATH BY SEX AND AGE, ALBERTA, 1967

TABUS 12

INT L			TOTAL					ES OF IMPA																	
INT L LIST NO.	CAUSE OF DEATH (SEVENTH REVISION)  1. INFECTIVE AND PARASITIC DISEASES.	TOTAL	-28 DAYS	DAY -1	DAY	DAYS	DAYS	EDNATAL 4 DAYS	5 DAYS	DAYS	7-13 DAYS	14-20 DAYS	21-27 DAYS	TOTAL 28 DAYS -1 YEAR	2 HOS	7 HOS	HOS	HOS P	MOS	NATAL O HOS	7 MOS	MDS	9 MOS	10 MOS	HOS
001-019	TUBERCULOSIS M	1 -			-	-								i.					1						
020-029	SYPHILIS				-		-	-	-					-					1	-					
045-048	DYSENTERY, ALL FORMS W	-			-										-	-				-					
050	SCARLET FEVER				-															-					
	f	-			-	-						-	- 1		-	-			-	-					
052	ERYSIPELAS # F	-	-			- 1	Ē			-		-	-												
055	DIPHTHERIA M F				-	-						-	-						- 1	- 1					
056	MHOOPING COUGH M	2	ī	- 1	1							-	-	ĩ			1								
057	MENINGOCOCCAL INFECTIONS H	2	-		-									-		-	-				-		-		
085	MEASLES M	1			-	-		-			-	-		-					1			- 1			
	OTHER DF 001-138 H	2			2				-			-		1 2				i i		-		ĩ	-		
	f i	-				Ē					-	-							-	-			- 1		
	CLASS ! TOTAL M F T	2 3 5	l l	-	-				-	-	-		1 1	2 2 4	=	-	1 1	1	1 - 1	-	-	1 - 1	-	-	1
140-205	II. NEOPLASMS. MALIGNANT VEOPLASMS.																								
201	HODGKIN S DISEASE	-														-									
204	T LEUKAGHIA AND ALEUKAEHIA H	-		-			-	-				-										-			
	DIRER OF 140-205			-	-							-	-			-		-	-	-			-		
	F T				Ī							=				-						- 1			
	TOTAL (140-205)	-						-	i												-		- 1		
210-229	RENIGN NEGPLASMS M. F. T.								-		-	=										-	-		
230-239	OTHER NEOPLASMS H										-		- 3			-						-			
	CLASS II TOTAL M		-			-	-	- 1	-	-	-	=	=	-	=	-	1	-	-		-	2	ū	=	1
	T III. ALLERGIC, ENDOCRINE AND METABOLIC DISEASES.	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	·	_	-	-
273	DISEASES OF THYMUS GLAND H												1												
	F 1											-	-		-		- 1								
	OTHER OF 240-289																		_				-		
	F								- 1				-			-		-	-					-	-
	CLASS [[] TOTAL # F	Ē	-		=	-	-	=	-	-	Ī	-	_	į	: :	-	-	-	-	-	-	-	-	į	- 1
290~299	IV. BLOOD DISEASES.  CLASS IV TOTAL	-	-	_	-	-	-	5	-		-		-			-	-	-	-	-	-	-	-	Ē	-
	V. MENTAL DISORDERS.	=	-	-	-	-	-	=	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-
325	MENTAL DEFICIENCY								-																
	OTHER OF 300-326											-													
	CLASS V TOTAL	-		-	-	-		:		-	-		-				- 1	-	-	-	-	-	-	-	:
	т	-	-	-		-	-	_	-	-	-					-	-	-	-	-	•	_	-	-	*
	VI. DISEASES OF NERVOUS SYSTEM AND THE SENSE ORGANS.																								
340	MENINGITIS																								
391-392	OTITIS MEDIA # F																			-					
	OTHER OF 330-198 M														7 I 2 1						1				
	CLASS VI TOTAL M			-			=	=	-	=	=				7 1 2 1	-	- 1	-		-	1 1	÷	-	-	-
	VII. DISEASES OF CIRCULATORY SYSTEM.		2 -																						
400-468	CLASS VII TOTAL M		: :	-	=	-	-	: :	-	: :	=				= =	-		Ē		-			-	Ē	Ē
	VIII. DISEASES OF THE RESPIRATORY SYSTEM.																								
470-475	ACUTE UPPER RESPIRATORY H																								
480-483	INFLUENZA																								
490-493	PNEUMONIA (4 NEEKS AND M UVER)													- -	4 L 9 3	1 2	1		1 2 3			ī 1			
500-502	BRONCHITIS		3 -											· .					-			-			
700-707	Ī	T																							
	OTHER OF 470-527	T	=												4 1		. 1		1	-	-	-	:		
	CLASS VIII TOTAL P	F 1	9 -					1				-	- :	,	4 L 9 3 13 4	3	1		3	-	-	1	=	-	-
	IX. DISEASES OF DIGESTIVE SYSTEM.																								
543	GASTRITIS AND DUDDENITIS P	F T																							

# TABLE 12 SELECTED CAUSES OF INFANT DEATH BY SEX AND AGE, ALBERTA, 1967

													D	68-1- OR											
INT L LIST NO.	CAUSE OF DEATH	TOTAL	FOTAL -28 DAYS	-1 () A Y	l DAY	2 DAYS	NEONA BAYS DA	6	S AYS	6 0 A Y S	7-13 1 DAYS	14-20 2 DAYS	21-27 DAYS	FOTAL 2 28 DAYS -1 YEAR	P DAYS	2 HDS	3 HDS	4 HDS	OST-NEON 5 MOS	ATAL 6 HDS	7 HOS	8 MOS	q HDS	10 Mas	11 HOS
560-570	HERNIA AND INTESTINAL M OBSTRUCTION F					- 1			-	-		-			-			-	-	-	-	-	-	-	
571	GASTRO-ENTERLITES AND M. COLITIS (A WEEKS AND DVER) F	1 5		-		-								1 5	î	-	1	î	-	-	-	-	-	-	
572		6						_			-	-		6	i	i	1	i	-	-	-	1	-	i -	
	CHROWIC ENTERSITS AND H ULGERATIVE COLITIS F I											-				-		-	-			-	-		
	OTHER OF 530-587 P F					-				-	-	-			-	-						-	=	-	-
	CLASS IX TOTAL H	1 5	Ē		-	-	-	-	-	-	=	Ē	Ē	1 5	1	- 1	1 -	1	-	Ē	Ę	1	Ĩ	1	-
	X. DISEASES OF GENETO- URINARY SYSTEM.	۰												۰			,							1	
590-637	CLASS X TOTAL M	į.	_	-	-	-	-	-	-	÷	1	1	-	1	-	-	-	-	-	-	-	-	Ξ	-	-
	XII. XIII. DISEASES OF THE	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SKIN AND MUSCULOSKELETAL SYSTEM.																								
690-749	CLASS XII, XIII TOTAL H F T	Ē	Ē	Ī	Ē	-	-	Ē	-	-	-	-	Ē		-	-	-	=	-			-	=		-
	XIV. CONGENITAL HALFORMATIONS.																								
750-759	CLASS XIV TOTAL M F T	3 1 4	2 - 2	1 1	-		-	Ē	-	-	-	-	1 - 1	1 1 2	1 - 1	-	-	Ī	-	-	-	- 3	-	i	=
	XV. DISEASES OF EARLY INFANCY.																								
760-761	INJURY AT RIRTH.																								
.0	WITHOUT IMMATURITY M. F. T.	Ē		- 1	-		-			- 1	-	- 1						-	1	-	-	-	-	-	-
-5	WITH IMMATURITY H	1	1	ì.	1						-						-	ž	-		-	-	-	-	
	TOTAL (760~761)	1	1	1				-	-		-	-						-	-	-	-	-	-		
74.2	'	1	ī	ī	-			-			-	-			=				Ĵ	Ĵ		-			
762	POSTNATAL ASPHYXIA AND ATELECTASIS.	_	_					_	_			_	_												
	t t	1	l l		-	-	1	-	-		-	-	-		-	=	-		Ē	Ē		-		-	
.5	MITH IMMATURITY M F T	3	- 3	2 - 2		1		-	-	- 1	-	-	-		-		-	-	-	- 1		-	-		
	TOTAL (762)	3 1	3	5	į.	1 -	1	ĵ				ĵ.			-			-	ž	ž	-		-		
763	PNEUMONIA OF NEWBORN.	~	,												_	-	-						-		
.0	WITHOUT IMMATURITY M F	1 - 1	1 -	1 - 1	- 1			-	-		-	-	-			-		-	-	-		-			
.5	WITH IMMATURITY R				1		-			-	-	Ē	-						-	-		-			
	TOTAL (763) P	1		1	-	- 1			-			-			-			-	-		-	-			
	Ť	1	Ĭ.	1								-		-	-			-	-	-	-	-			
764	DIARRHUEA OF NEMBORN.	1	1	-	_			_				-	1		-										
	F	ĩ	Î.	-	-	-	÷	-	-	-	-		1		-	-			1			-			-
-5	WITH IMMATURLTY # F 7	=	-	-		-	-	-			-	=	Ĭ	-	-			Ī	-			-		- 1	-
	TOTAL (784) H F T	1 - 1	1	-	-	- 1	- 1	-		-	-	- 1	1 - 1		-	- 2		-	-	-	-		-	-	
765-768	OTHER INFECTIONS OF THE NEWBORN.																								
.0	WITHOUT IMMATURITY #	-	-	-	î	-		3	-	-	-	-	-	-	-	-	-	-		-	-	-		-	
. 5	MITH THMATURITY B		-	-	-	-	1	-	-		-	-	-	-	-	-		-	-	-		1		-	-
	TOTAL (765-768)	-	-	-	-	-	1	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	
769	MATERNAL TOXAEMIA.		-	-	-	-	-	-	-				-	-	-	-	-		-			-		-	-
+0-+4	MITHOUT IMMATURITY M	-	:	-	-	-	Ξ	-	-	-	- 1	-	-	1	-	12	- 1	-	1	1		2	-	1	-
.59	T WITH IMMATURITY M	-	-	_	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-		-			-
	TOTAL (769)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-		- 1	
	T T		=	=	-	-	-	-	-	-	-	-	Ē	=	-	-	:	3	-		-		î	Ē	-
770 .02	ERYTHROBLASTOSIS. WITHOUT IMMATURITY			1	=	-	-	-	-	-	Ē	-	-		į	Ē	į	:	-		-		Ē		1
.57	WITH IMMATURITY							-						-								-			
	1							Ē	-	-	-	-	-		=	-	-	-				-	-	-	:
	TOTAL [770]		: :	=	-	-	=	-	-	-	=	=	-	Ē	=	:		-	-	-		-			÷
771	HAEMORRHAGIC DISEASE OF NEMBORN.																								
.0	WITHOUT IMMATURITY		:	: :	-	-	-	=	-	-	-	-	=	Ē	-	-	-	-		-	Ē	-	-	-	-
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	TOTAL (771)							-	-			-	-		-			-		-	1	-	-	-	-
772	NUTRITIONAL MALADJUSTMENT.					-	-	-		-	Ī	-		-	-	-	-	-	-	-	-		-		-
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.5	WITH [HMATURITY							-	-			-	-			-	-	-		-	-	-	-	-	=
	TOTAL (772)	T H											-						:					-	
		F T	1 -			=	-	-	-	ū	=	=	-	1 1		-	1		-	-	=	-	-	-	-

INT L LIST NO.	CAUSE OF DEATH ISEVENTH REVISION)	TOTAL	TOTAL -28 DAYS	-1 DAY	1 DAY	2 DAYS	3	EONATAL 4 DAYS	5 DAYS	n DAYS	7-13 DAYS	14-20 04YS	21-27 0AYS	TOTAL 28 DAYS -1 YEAR	ZR DAYS	2 HOS	3 MOS	4	OST-NED	6	7 H(IS	8 204	9 HDS	to MOS	L1 HOS
773	TO EARLY INFANCY.																								
-0	WITHOUT INNATURITY M	5 2 7	l l	1 1				-					-	4	1	į	1	1	-						
.5	HITH INMATURITY H	6	6	4										-	1	1	1	1	1						
	T H	11	7	5	2		-							4	- 1	1	- 1	1							
774-776	IMMATURITY	13	8	1	- 2		-					1		5	ī	i	1	1	1						
	CLASS XV TOTAL A	6	15	10	2	-	1	-				ī	-												
	F	8 27	21	14	2	1	5		-		Ē	1	i	4 2 6	1	1	l l	1 - t	1	-	-	-	-	-	-
795	XVI. ILL-DEFINED COMDITIONS.																								
	CAUSES F					i		-							Ē										
	OTHER OF 780-795 H			- 1	-				- 1			-													
	CLASS XVI TOTAL H	-	-	-	-	-	-	-	-	-	-	-	-		-		-	-	-		-	-	-	-	
	XVII. ACCIDENTAL AND VIOLENT CAUSES.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-
£810-€825	MOTOR VEHICLE TRAFFIC M ACCIDENTS	1		-	-						-	-										-			
E900-E904	ACCIDENTAL FALLS H	-		-	-						-												-	-	
	F t	-	-					=	-						-										
6916	FIRE ACCIDENTS M F	3			-					-		-													
6921-6922	INHALATION AND INGESTION M F	î	Ĩ	-	-	1			-			-													
6924-6925	MECHANICAL SUFFOCATION M	l I	÷	-	Ĵ				-	1	- 1			1					1						i
	OTHER OF E800-E999 M	2				-						-		-											-
	CLASS XVII TOTAL M	-	-	-	-	-	-	-	-	-												-	-		
	F T	2	1	-	-	1	-	-	-	Ī	-	-	-	1 2	Ē	-	-	-	1	-	-	-	-	-	1
	TOTAL ALL CAUSES H F T	30 30 60	8	11 4 15	2 - 2	1 1 2	5	-	Ξ	-	=	1 1	1 3	13 22 35	3 5 8	II 3 5	3 3 6	1 2 3	3 3 II		ī l	II II 3	-	2 2	t 1

TABLE 13
INFANT DEATHS BY MONTH, AGE, AND SEX, ALBERTA, 1967

Ag			Total	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.
Under 1	day	M F T	141 108 249	11 13 24	10 7 17	9 15 24	18 10 28	11 10 21	15 10 25	9 8 17	11 2 13	5 8 13	18 6 24	10 11 21	14 8 22
1	day	M F T	27 21 48	2 3 5	2 1 3	4 2 6	5 1 6	3 2 5	4 1 5	2 2 4	3 3 6	2 2	1 1 2	2 2	1 1 2
2	days	M F T	24 17 41	1 2 3	2 2	3	1 1 2	3 1 4	7 3 10	3	3 2 5	2 1 3	1	2 2 4	1
3	days	M F T	11 7 18		1	2 1 3		2 2 4	2		1		1 2 3	2	2 2
4	days	M F T	7 3 10	1		-			1 1	1 2 3	2 2	1			2
5	days	M F T	<b>2</b> 4 6	2 2						1	1 1	1 1 2			
6	days	M F T	5 1 6	1 1					2				2		1 1
Under 7	days	M F T	217 161 378	16 20 36	13 10 23	15 21 36	24 12 36	19 15 34	30 15 45	16 12 28	20 8 28	9 12 21	23 9 32	14 15 29	18 12 30
7-13	days	M F T	11 7 18				1		3 2 5	1 2 3	2	2	1 2 3		1 1 2
14-20	da <b>y</b> s	M F T	4 4 8		1 1 2		1		1 1		1	I 1	1		1 1
21-27	days	M F T	4 4 8			1 1	2 <b>2</b>	1	1 1	1					2 2
Under 28	days	M F T	236 176 412	16 20 36	14 11 25	15 22 37	28 12 40	20 15 35	34 18 52	18 14 32	23 8 31	11 13 24	24 12 36	14 15 29	19 16 35
28 Under 2	days— Months	M F T	26 28 54	1 5 6	2 2	2 2 4	2 2	1	2 3 5	2 4 6	4 1 5	2 4 6	3 5 8	2 1 3	5 1 6
2	Months	M F T	18 18 36	2 4 6	1 1	3 1 4	1	3 2 5	1 1	2	2		2 3 5	1 3 4	1 4 5
3	Months	M F T	15 13 28	1 1 2	2	3 1 4		2	2 2 4	2 2	2 2 4	2 2	1 2 3	1	1 1 2
4	Months	M F T	5 11 16	2 2	2 3 5	1 2 3		1	2 2	1 1			1 1 2		
5	Months	M F T	10 11 21	1 2 3		1 3 4	1 1	1 1 2		2 2	2	2 1 3	1	2	1 1
6	Months	M F T	3 6 9	1 1	1 1		2 2	1		1 1	1			1 1	1
7	Months	M F T	6 2 8		2		2	1	1		1 1			1 1	
8	Months	M F T	6 8 14	1 1		1 2 3	1 1 2	1 1 2		1 1	1 1	1	1 1	1	1
	Months	M F T	1 2 3	1							1 1		1 1		
	Months	M F T	2 7 9	1		1 1		1 1 2		1 1			2 2	1 1	1
11	Months	M F T	1 4 5			1 1	1 1	1 1 2					1 1		
Under 1	Total year	M F T	329 286 615	22 37 59	21 17 38	26 35 61	34 17 51	33 21 54	39 26 65	22 26 48	34 14 48	16 20 36	32 28 60	21 22 43	29 23 52

TABLE 14

DEATHS AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST OF 150 CAUSES, CANADA, 1967

Int'l list No.	Cause of death (Intermediate list) (7th Rev.)	Sex	Canada	Nfld.	P.E.I.	N. S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	В. С.	Yuk- on	NWT
	All causes	T M F	150,283 88,300 61,983	3,117 1,830 1,287	1,038 603 435	6,638 3,829 2,809	4,894 2,851 2,043	38,665 22,474 16,191	54,878 31,694 23,184	7,629 4,549 3,080	7.441 4,678 2,763	9,523 5,895 3,628	16,170 9,720 6,450	73 49 24	217 128 89
	I. INFECTIVE AND PARA- SITIC DISEASES	T M F	1,131 722 409	30 24 6	5 3 2	57 40 17	35 17 18	410 277 133	314 200 114	55 32 23	50 29 21	71 42 29	95 57 38	-	9 1 8
A 1	Tuberculosis of respiratory system	T M F	611 430 181	15	-	31 25	24	297 211	129	26 17	18	31 23	35 26	-	5 -
a,	Active	T M F	474 346	3 12 11		20 16	12 19 11	86 266 189	35 82 62	9 15 12	8 4 4	8 28 22	9 24 19	-	5 4 -
b.	Inactive (002.2,008.2)	T M F	128 137 84 53	1 3 1 2	- - -	11 9	8 5 I	77 31 22	20 47 32	3 11 5	14	6 3 1	5 11 7	-	1 -
A 2	Tuberculosis of meninges and central nervous system	T M F	10		-	2 1 - 1	4 -	9 4 3	15	6 1 1	8 1 1	2 -		-	1 1 -
A 3		T M F	2 1 1	-	-	-	- - -	1 1	2 - -	1 -	-		-	-	- -
A 4		T M F	2 - 2	- - -	-	-	-	1	1	1 - -	-	- - -	-	-	-
A 5	Tuberculosis, all other forms	T M F	33 19 14	1		1 - 1	-	1 6 1 5	1 12 8 4	5 4 1	2 2	2	4 2	-	-
A 6	Congenital syphilis	T M F	1 1	-	-	- - -	-		1 1	-	-		2 -	-	-
A 7	Early syphilis	T M F	-	-	-	-	-	-	-	-	-	-		-	-
A 8	Tabes dorsalis	T M F	3 2 1		-	-	-	2 1 1	-	-	-	-	- 1 1	-	-
A 9	General paralysis of insane	T M F	9 8	1	-	-	-	4 1 3 1	3 3	-	-	-	1 1	-	-
A 10	All other syphilis	T M F	55 41 14		-	4 4	1 - 1	7 6	24 17 7	1 1	6 4 2	6	6 3 3	-	-
A 11	Gonococcal infection	T M F	-	-	-	-	-	-	-	-	-	-		-	-
A 12	Typhoid fever	T M F	1 1 -	-	-	-	-	-		-	1 I	-	-	-	-
A 13	Paratyphoid fever and other Salmonella	T M F	5 1 4	-	-	-	-	2 1 1	2 - 2	-	-	-	1 - 1	-	-
A 14	Cholera	T M F	-	-	-	-	-	-	-	-	-	-	-	-	-
A 15	Brucellosis (undulant fever)	T M F	- - -	-		-	-	- - -	-	-	-	-	-	-	-
A 16	Dysentery, all forms	T M F	5 2 3 !	-	-	-	-		1 - 1	1 1	1 - 1	-	2 1 1	-	-
A 17	Scarlet fever	T M F	1 1 -	-	-	-	-		1 1 -	-	- - -	-	-	-	-
A 18	Streptococcal sore throat	T M F	3 1 2	-		1 1 -	-	1 - 1		-	-	-	1 - 1	-	-
A 19	Erysipelas	T M F	5 2 3	-	-	-	1 1 -	-	4 1 3	-	-	-		-	-
A 20	Septicaemia and pyaemia	T M F	48 33 15	3 3	1 - 1	3 -		8 6 2	20 13 7	3 l 2	4 4 -	4 2 2	2 1 1	-	-
A 21	Diphtheria	T M F	-	- - -	-	- - -		-	-	-				-	-
A 22	Whooping cough	T M F	15 6 9	1 - 1	-		-	5 3 2	3 1 2		2 1 1	3 - 3	1 1 -	-	-
A 23	Meningococcal infections	T M F	38 25 13	5	-	2 - 2	2 1 1	9 7 2	12 8 4	-	1 1 -	2 1 1	5 2 3	-	-

TABLE 14
DEATHS AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST OF 150 CAUSES, CANADA, 1967 (Continued)

Int'l List No.	Cause of death (Intermediate list) (7th Rev.)	Sex	Canada	Nfld.	P. E. I	N. S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	в.с.	Yuk- on	NWT
A 24	Plague	T M	-	-	-	-	-	-	-	-	-	-	-	-	-
A 25	Leprosy	F T	-	-	-	-	-	-	-	-	-	-	-	-	-
۸ 24	Tetanus	M F T	- - 5	-	-	-	- - 1	-	- - 2	- 1	-	-	- 1	-	-
A 26	retanus	M F	4	-		-	- 1	-	2 -	1 -	-	-	1 -	-	-
A 27	Anthrax	T	-	-	-	-	-	-	-	-	-	-	-	-	-
A 28	Acute poliomyelitis	F T M	-	-	-	-	-	-	-	-	-	-	-	-	-
A 29	Acute infectious encephalitis	F T M	36 18	- 2 1		-	ī 1	7 3	18 9	-	-	6 4	2	-	- -
A 30	Late effects of acute poliomyelitis and acute	F T M	18 31 20	1 - -	-	5 2	1 1 1	8 5	9 9 5	4 3 1	3 3	2 -	1 1 1 -	-	-
A 31	infectious encephalitis Smallpox	F T M	11	-	-	3	-	3 -	4 -	-	-	-	-	-	-
A 32	Measles	F T M	45 15	-	-	-	- 2 2	10	10	7 -	6 2	6	3 2	-	1 -
A 33	Yellow fever	F T M	30	-	-	-		7	5 - -	7 -	4	5 -	1 - -	-	
A 34	Infectious hepatitis	F T M	76 42	1 1	1 1	3	- 1 -	12 10	30 18	-	1	4 2	22 8	-	1 1
A 35	Rabies	T M	34	-	-	2 -	1 - -		12	-	1 - -	2 -	14	-	-
A 36	Typhus and other ricket- tsial diseases	T M	1 -	-	-	-	-	-	1 - -	-	-	-	-	-	-
A 37	Malaria	T M	-	-	-		-	- - -	- - -	-	-	-	-	-	-
A 38	Schistosomiasis	T M	- - -	-	-	-	- - -	-	-	-	-	-	-	-	-
A 39	Hydatid disease	T M	-	-	-	-	-	- - -	-	-	-	-	-	-	-
A 40	Filariasis	F T M	-	-	-	-	- - -		-	-	-	-	-	-	-
A 41	Ankylostomiasis	F T M	-	-	-	-	-	-	-	-		-	-	-	-
A 42	Other diseases due to helminths	T M F	-	-	-	-	-	- -	-	-	-	-	-	1	-
A 43	All other diseases classified as infective and parasitic	T M F	90 44 46	1	3 2 1	6 4 2	1 - 1	26 13 13	29 14 15	5 3 2	4 - 4	7 2 5	7 6 1	-	1 - 1
	II. NEOPLASMS	T M F	28,324 15,674 12,650	529 301 228	175 87 88	1,198 642 556	434	7,943 4,300 3,643	10,078 5,535 4,543	1,482 850 632	1,292 750 542	1,757 1,015 742	3,008 1,738 1,270	9	23 13 10
	All malignant neoplasms (A44-A59)	T M F	28,007 15,515 12,492	518 296 222	86	1,176 632 544	429	7,846 4,248 3,598	9,978 5,484 4,494	1,465 842 623	1, 275 742 533	1,739 1,006 733	2,984 1,728 1,256	9	22 13 9
A 44	Malignant neoplasm of buccal cavity and pharynx		566 433	12		19	10	196 171	201	27 18	17	28 21	49 32		-
A 45	Malignant neoplasm of oesophagus	T M	133 480 352	11 9	2	23 17	3	25 115 89	57 198 146	9 30 19	13 10	7 30 22	17 52 36	-	1 1
A 46	Malignant neoplasm of stomach	F T M F	128 2,593 1,704	93 58 35	20 15	109 79	43	26 782 505	52 763 503	11 141 92	150 100	170 115	16 276 193	-	1 1
A 47	Malignant neoplasm of intestine, except rectum	T M	889 3,301 1,510	57 29	19	30 171 75	110 48	277 953 397	260 1,199 557	163 81	50 122 62	55 190 94	83 315 158	-	2
A 48	Malignant neoplasm of rectum	F T M F	1,791 1,235 747 488	28 23 11 12	8 4	96 43 27 16	35 20	556 330 199 131	642 479 290 189	82 53 35 18	60 51 32 19	96 82 51 31	157 128 76 52	2 2	1 1 - 1

TABLE 14
DEATHS AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST OF 150 CAUSES, CANADA, 1967 (Continued)

Int'l List No.	Cause of death (Intermediate list) (7th Rev.)	Sex	Canada	Nfld.	P. E. I.	N. S	N.B.	Que.	Ont.	Man,	Sask.	Alta.	В.С.	Yuk-	NWT
A 49	Malignant neoplasm of larynx	T	227 203	7 7	2 2	11	6	80	78 71	9 8	7 6	15 15	12	on -	-
A 50	Malignant neoplasm of trachea and of bronchus and lung not specified as secondary	F T M F	24 4,318 3,700 618	73 58 15	17 14 3	1 179 148 31	90 82 8	13 1,100 934 166	7 1,641 1,430 211	250 213 37	1 165 141 24	251 209 42	11 537 461 76	6 4 2	9 6 3
A 51	Malignant neoplasm of breast	T M F	2,664 19 2,645	31	16 1 15	100	85 - 85	780 5 775	979 9 970	123 1 122	101	156 1 155	290 2 288	-	3 - 3
A 52	Malignant neoplasm of cervix uteri	F	652	16	2	40	24	204	247	18	18	31	51	-	1
A 53	Malignant neoplasm of other and unspecified parts of uterus	F	445	5	5	10	12	174	154	33	13	18	21	-	-
A 54	Malignant neoplasm of prostate	М	1,456	13	8	61	47	390	456	88	99	99	194	1	-
A 55	Malignant neoplasm of skin	T M F	371 222 149	2 2	-	18 11 7	15	101	141	18	2:2	20 14	34 14	-	-
A 56	Malignant neoplasm of bone and connective tissue	T M F	295 170 125	6 1 5	- 2 - 2	13 9	8 10 3 7	40 100 59 41	49 88 61	9 9 3	10 13 7	6 20 10	20 34 17	-	-
A 57	Malignant neoplasm of all other and unspecified sites	TMF	6,813 3,468 3,345	132 75 57	55 27 28	293 133 160	207 117 90	1,824 928 896	27 2,438 1,219 1,219	354 186 168	356 185 171	10 449 236 213	17 700 357	2 2	3
a,	Other digestive organs (155-159)	T M F	2,615 1,405 1,210	42 26 16	21	111 52 59	78 53 25	737 387 350	905 478 427	136 71 65	126 62 64	166 96 70	343 290 168	1 1	2 2
b.	Other respiratory organs (160, 164, 165)	T M F	135 95 40	2 2	-	7 4 3	1 -	32 27 5	63 38 25	10 8 2	8 6	3	122 9 7	-	-
С.	Urinary organs (180, 181)	T M F	1,384 962 422	26 19 7	15 11 4	58 34 24	46 39 7	344 245 99	534 362 172	79 58 21	58 45 13	95 68 27	1 29 81 48		-
d.	Brain and other parts of nervous system (193)	T M F	781 464 317	16 10 6	6 4 2	21	25 11 14	235 137 98	254 150 104	38 24 14	51 31 20	52 33 19	82 51 31	-	1
e,	Other	T M F	1,898 542 1,356	46 18 28	13 3 10	96 31 65	57 14 43	476 132 344	682 191 491	91 25 66	113 41 72	133 36 97	190 50 140	1	-
A 58	Leukaemia and aleukaemia	T M F	1,213 702 511	19 12 7	6 3 3	36 25	34 22 12	330 195 135	437 232 205	70 44 26	59 34 25	87 56 31	135	-	-
A 59	Lymphosarcoma and other neoplasms of lymphatic and haematopoietic system Hodgkin's disease (201)	T	1,378 829 549 345 227	18 13 5 6 6	8 1 7 2 1	50 22 28 12 5	38 21 17 9 4	387 248 139 106 70 36	479 274 205 108 66	79 45 34 15 7	69 43 26 15 11	93 63 30 26 19	156 98 58 46 38	-	1 1
b.	Other	T M	1,033	12	6	38 17	29 17	281 178	371 208	64 38	54 32	67 44	110	-	1
A 60	Benign neoplasms and neoplasms of unspecified nature	F T M F	431 317 159 158	5 11 5 6	6 2 1 1	21 22 10 12	12 8 5 3	103 97 52 45	163 100 51 49	26 17 8 9	22 17 8 9	23 18 9	50 24 10 14	-	1 1
	III. IV. ALLERGIC DISOR- DERS AND ENDOCRINE METABOLIC AND BLOOD DISEASES	T M F	4,133 1,957 2,176	69 39 30	20 6 14	214 90 124	146 59 87	1,441 671 770	1,313 629 684	166 73 93	209 115 94	261 141 120	289 131 158	-	5 3 2
A 61	Nontoxic goitre	T	10	-	-	-	-	6 1 5	-	-	1 - 1	-	2	-	1
A 62	Thyrotoxicosis with or without goitre	F T M	9 19 5	2 1 1	-	1	2 1 1	4 1 3	6	2 1 1	1 1 1 -	-	2 1 - 1	-	1 - -
A 63	Diabetes mellitus	F M F	14 2,688 1,180 1,508	47 25 22	13	136 49 87	102	959 414 545	838 382 456	96 30 66	144 75 69	179 90 89	173 78 95	-	1 1
A 64	Avitaminosis and other deficiency states	T M F	1,508 68 34 34	2 2 -		6 1	3 2 1	10 4	25 11 14	5 3 2	2	3 3	10	-	2 2
A 65	Anaemias	T M F	354 175 179	6 5	2 1 1	13	10 9	119 51 68	130 62 68	17	19	17	21 9	-	-
A 66	Allergic disorders; all other endocrine, metabolic and blood diseases	T M F	994 562 432	12 6 6	5 2 3	58 34 24	29 14 15	343 200 143	314 174 140	46 28 18	42 28 14	62 37 25	82 39 43	-	1

TABLE 14
DEATHS AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST OF 150 CAUSES, CANADA, 1967 (Continued)

Int'l List	t		Sex	Canada	Nfld.	P. E. I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	в. С.	Yuk-	NWT
		V. MENTAL, PSYCHONEU- ROTIC, AND PERSONAL- ITY DISORDERS.	T M F	543 343 200	8 3 5	5 4 1	26 18 8	14 9 5	164 94 70	196 132 64	20 8 12	19 10 9	30 24 6	59 40 19	1 - 1	1 1 -
A 6	7	Psychoses	T M F	175 92 83	2 - 2	1	7 4 3	4 3 1	61 30 31	64 29 35	2 2	8 6 2	7 4 3	16 12 4	-	1 1 -
A 6	8	Psychoneuroses and disorders of personality	T M F	276 208 68	1 - 1	4 3 1	16 12 4	7 5 2	50 37 13	114 95 19	12 5 7	7 3 4	23 20 3	41 28 13	1 - 1	-
A 6	9	Mental deficiency	T M F	92 43 49	5 3 2	-	3 2 1	3 1 2	53 27 26	18 8 10	4 1 3	4 1 3	-	2 - 2	- - -	-
		VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	T M F	17,053 8,422 8,631	-457 242 215	132 65 67	879 429 450	554 250 304	3,889 1,917 1,972	6,242 3,027 3,215	889 477 412	867 468 399	1,125 600 525	1,994 932 1,062	5 4 1	20 11 9
A 7	70	Vascular lesions affecting central nervous system	T M	15,449 7,551 7,898	418 226 192	121 59 62	812 397 415	508 225 283	3,351 1,611 1,740	5,778 2,784 2,994	808 434 374	779 410 369	1,019 549 470	1,843 848 995	5 4 1	7 4 3
A 7	71	Nonmeningococcal meningitis	F T M F	150 85 65	1 - 1	1 1	11 6	6 3 3	42 22 20	36 20 16	8 4 4	8 6 2	6 3 3	20 13 7	-	11 7 4
A 7	72	Multiple sclerosis	T M F	186 69 117	5 2 3	1 1 -	9 5 4	5 2 3	59 26 33	52 16 36	10 3 7	8 3 5	14 4 10	22 7 15	-	1 7
A 7	73	Epilepsy	T M F	220 134 86	5 2 3	1 1 -	6 3 3	8 6 2	81 49 32	55 31 24	7 5 2	22 16 6	19 11 8	15 10 5	-	1 - 1
A 7	74	Inflammatory diseases of eye	T M F	1	-	-	- - -	- - -	- - -	1 1 -	-	- - -	- - -	-	-	-
A 7	75	Cataract	T M F	5 4 1	-	-	-	1 - 1	2 2 -	1 1 -	-	-	-	1 1 -	-	-
A 7	76	Glaucoma	M F	- - -	-		-	-	-	- - 15	-	2	- - 4	- 4	-	-
A 7		Otitis media and mastoiditis	M F	71 49 22	1	- 8	1 40	2 - 2 24	42 28 14 312	11 4 304	56	1 1 48	3 1 63	4 89	-	-
Α ΄	78	All other diseases of the nervous system and sense organs	T M F	971 529 442	27 11 16	3	17	14	179	163 141	31 25	32 16	30	49 40	-	-
		VII. DISEASES OF THE CIRCULATORY SYSTEM	T M F	59,975 36,315 23,660	1,003 598 405	272	2,656 1,570 1,086		14,689 8,846 5,843	23,329 13,769 9,560	3,001 1,843 1,158	2,918 1,923 995	2,158	6,482 4,023 2,459	19 11 8	18 13 5
Α '	79	Rheumatic fever	T M F	27 12 15	-	-	-	2 1 1	7 4 3	15 4 11	-	2 2	-	1 1	-	-
A	80	Chronic rheumatic heart disease	T M F	1,277 538 739	20 7 13	12	43 18 25	26 13	415 166 249	422 193 229	68 28 40	65 33 32	26 54	126 47 79	-	-
A	81.	Arteriosclerotic and degenerative heart disease	Т	48,548 30,572 17,976	749 471 278	344 226	2,089 1,307 782	1,695	11,628 7,415 4,213	19,455 11,863 7,592	2,361 1,507 854	2,129 1,460 669	1,792	5,406 3,421 1,985		13 11 2
A	82	Other diseases of heart	T M F	2,286 1,238 1,048	78 34 44	2	133 70 63		536 280 256	702 371 331	138 71 67	249 167 82	92 72	183 96 87	2 1 1	5 2 3
А	83	Hypertension with heart disease	T M F	2,187 923 1,264	53 27 26	11 18	85 36 49	34 35	789 298 491	705 294 411	71 32 39	117 50 67	33 37	199 108 91	-	-
А	84	Hypertension without mention of heart	T M F	654 319 335	15	9 7	28 14 14	12 14	206 97 109	200 90 110	38 22 16	26 11 15	26 20	53 32 21	-	-
А		Diseases of arteries	T M F	4,188 2,279 1,909	43 27	13 14	238 106 132	74 66	996 534 462	1,529 803 726	234 132 102		149 112	434 267 167	1 1 -	-
A	86	Other diseases of circulatory system	T M F	808 434 374	10	4	40 19 21	13	112 52 60	301 151 150	91 51 40	72 43 29	40	80 51 29	-	-
		VIII. DISEASES OF THE RESPIRATORY SYSTEM	T M F	8,616 5,622 2,994	126	37	344 218 126	148	1,611 1,074 537	3,336 2,151 1,185	607 376 231	545 363 182	356	750	3	39 20 19
А	87	Acute upper respiratory infections	T M F	96 61 35	2	-	7 6	5	8 2 6	28 14 14	5		6	23 17 6	-	-
A	88	Influenza	T M F	263 126 137	8	5	8	9 7	94 40 54	84 40 44	6 2	12	12	23	-	2 1 1

TABLE 14

DEATHS AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST

OF 150 CAUSES, CANADA, 1967 (Continued)

Description   Description						, ODB, C.	LLIANDA	, 1707	(Continue	ea)						
A 90   Primary stypical, other	List	(Intermediate list)	Sex	Canada	Nfld.	P. E. I.	N.S.	N. B.	Que.	Ont,	Man.	Sask.	Alta.	В. С.		NWT
A 90 Bronchopaeumonia	A 89	Lobar pneumonia														
A 91 Primary atypical, other and unspecified preumonia in an approximation of the property of	A 90	Bronchopneumonia	T M	3,004 1,716	61 35	2 12 7	11 81 45	6 87 46	15 433 258	80 1,279	12 279	12 215	12	31 374	1	11
A 92 Bronchitis	A 91		T M	1,433 817	59 32	18 11	76 41	55 19	190 113	558 330	96 46	81 48	101	181 110	2 -	6 16 8
### A 93 Bronchitis, chronic and white the service of the service	A 92	Acute bronchitis	T M	86 49	4 3	-	7 3	3 2	25 10	24	11	2	3	7		-
A 94 Hypertrophy of tensils and adeal adenotes and adenotes and abscess of the series	A 93		T M	1,233	16 14	6	70 55	32 20	343 279	439 377	52 45	60	74 61	135 112		1
A 96 Pieurisy  T	A 94		T M	14 8			-	1	4	3		1	4	1	-	-
A 96 Pleurisy  Fig. 1, 832   1 - 2   1   22   18   1   1   5   1   - 2   - 1    A 97 All other respiratory  Min 1, 413   25   9   77   10   10   10   10   10   10   10	A 95		T M	76 53	3 2		1 1	5 3	15 9	34 25	1	6 4	2	7 6	-	-
A 97 All other respiratory diseases   M   1,443   25   10   66   50   432   651   115   132   140   209   - 8   8   4   4   116   143   25   132   173   34   - 4   4   116   143   25   132   173   34   - 4   4   116   143   25   132   173   34   - 4   4   116   143   25   132   173   34   - 4   4   116   143   25   132   173   34   - 4   4   116   143   25   132   173   34   - 4   4   116   143   25   132   173   34   - 4   4   116   143   25   132   173   34   - 4   4   116   143   25   132   173   34   - 4   4   116   116   114   116   114   116   11	A 96	Pleurisy	T M	51 32	1	-	2 2	1 -	22 15	18 11	1	1 -	5 2	-	-	-
DIGESTIVE SYSTEM	A 97		T M	1,845 1,413	32 25	9	66 47	50 36	432 316	651 508	90	132	140 103	209 175	-	8 4
## Supporting structures   M			M	3,265	53	23	111	92	906	1,151	156	186	208	372	2	5
A 99 Ulcer of stomach    M   3509   8   2   23   318   151   168   19   26   24   59   - 1	A 98		M	2	-		-		-	1	-				1	-
Alto Ulcer of duodenum    M   338   5   1   188   9   55   135   19   22   21   53   -	A 99	Ulcer of stomach	T M	500 359	9 8	2 2	23 16	18 13	151 114	168 116	19 12	16	15	46	-	
A101 Gastritis and duodenitis  M 23 - 2 - 1   5   5   12   1 - 1   1   1   - 2   1   3   - 3   - 4    A102 Appendicitis  T 1112   1 - 1   1   28   44   5   10   7   15   - 3    M 82 - 1   1   1   28   44   5   10   7   15   - 3    A103 Intestinal obstruction and hernia  M 404   10   3   19   4   42   24   225   348   44   42   25   36   44   - 3    A104 Gastro-enteritis and colitis, except diarrhoea of the newborn of the newborn  T 1 1 1   1   1   1   1   1   1   2    A105 Intestinal obstruction A106 Cholelithiasis and colitis, except diarrhoea of the newborn  T 1 1 1   4   1   1   1   2   2   2   2    A106 Cholelithiasis and cholecystitis  M 228   1   4   1   1   2   2   2   2   2   3    A107 Chren diseases of digestive system  T 352   2   3   3   4   8   7   7    A108 Acute nephritis  T 36   2   1   1   1   2   1   1   1    A109 Chronic, other and M 28   1   4   1   2   2   2   2   2    A110 Infections of kidney  T 459   450   4   1   1   1   2    A111 Galculi of urinary system  M 401   5   3   1   1   3   2   4   4   4   4   2   6   6    A111 Galculi of urinary system  M 402   5   6   7   6   7   7   7   7   7   7   7	A100	Ulcer of duodenum	T M	442 338	5 5	2 1	24 18	10	74 55	176 135	26 19	25 22	3 2 2 1	68 53	-	-
Al02 Appendicitis    M	A101	Gastritis and duodenitis	T M	36 23	~	2 2	-	2 1	10	17 12	1	-	1 1	3 1		
Al03 Intestinal obstruction and hernia  F 904 19 4 42 24 225 348 46 42 59 975 - and hernia  F 440 9 1 23 15 105 174 24 25 36 44 Al104 Gastro-enteritis and colitis, except diarrhoea of the newborn F 4805 15 5 28 22 11 16 83 105 17 26 20 31 - 2 Al105 Cirrhosis of liver  M 928 11 4 18 23 297 341 39 40 48 105 1 1 1 Al105 Cholecystitis  M 928 11 4 18 23 297 341 39 40 48 105 1 1 1 Al105 Cholecystitis  M 283 - 3 11 13 218 165 27 30 44 74 Al105 Cholecystitis  M 283 - 3 11 13 218 165 27 30 44 74 Al105 Cholecystitis  M 288 1 7 9 9 25 16 121 166 27 32 43 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A102	Appendicitis	T M	112 82	-	-		1 1	28 24	44 27	5 4	7	7	15 11		-
Al04 Gastro-enteritis and colitis, except diarrhoea of the newborn   Al05 Cirrhosis of liver   Al06 Cholelithiasis and cholecystitis   Al07 Cholelithiasis and cholecystitis   Al08 Cholelithiasis and cholecystitis   Al07 Cholelithiasis and cholecystitis   Al08 Cholelithiasis and cholecystitis   Al07 Cholelithiasis and cholecystitis   Al07 Cholelithiasis and cholecystitis   Al08 Cholelithiasis and cholecystitis   Al18 Ch	A103		T M	904 464	19 10	3	19	9	225 120	348 174	46 24	42 25	36	95 44	-	-
A105 Cirrhosis of liver    M	A104	colitis, except diarrhoea	T M	685 320	15 7	5 2	28 11	22 16	175 83	228 105	34 17	49 26	56 20	67 31		6 2
Cholecystitis  Cholecystitis  Cholecystitis  Cholecystitis  M  Separate  Alor Other diseases of digest- ive system  Cholecystitis  T  Separate  Alor Other diseases of digest- ive system  Cholecystitis  T  Separate  Alor Other diseases of digest- ive system  Cholecystitis  T  Separate  Alor Other diseases of digest- ive system  Cholecystitis  T  Separate  Alor Other diseases of digest- ive system  Cholecystitis  T  Separate  Cholecystitis  Cholecystitis  T  Separate  Alor Other diseases of digest- ive system  Cholecystitis  T  Separate  Cholecystitis  Separate  Cholecystitis  Cholecyst	A105		M	928	11	4	18	23	297	341	39	40	48	105		1
No.   No.	A106		M	258	3	-	3	4	87	74	13	18	17	39	-	-
GENITO-URINARY SYSTEM  M 1,562 26 8 74 61 471 484 72 90 89 181 1 5  A108 Acute nephritis  T 61 2 1 1 3 24 14 4 4 2 6 6  M 28 1 0 1 - 8 10 2 2 2 2 2 - 4  F 33 1 1 - 3 16 4 2 2 2 2 - 4  A109 Chronic, other and T 971 10 6 49 27 401 294 37 31 50 64 1 1  unspecified nephritis  M 512 5 3 22 22 179 166 22 20 30 42 1  F 459 5 3 27 5 222 179 166 22 20 30 42 1  A110 Infections of kidney  T 641 19 2 33 26 153 192 33 40 41 98 - 4  M 357 11 - 18 16 79 84 18 28 22 58 - 3  F 304 8 2 15 10 74 108 15 12 19 40 - 1  All1 Calculi of urinary system  T 112 4 - 6 3 26 48 4 5 6 10  M 62 5 1 177 24 3 4 2 6  F 50 4 - 1 2 9 24 1 1 4 4 4  A112 Hyperplasia of prostate  M 410 5 3 16 15 106 137 15 29 27 55 - 2  A113 Diseases of breast  T	A107		M	491	9		25	16	121	166	27	32	43	41	1	1
Alto Active hephritis    M   28		GENITO-URINARY	M	1,562	26	8	74	61	471	484	72	90	89	181		5
Al10 Calculi of urinary system  Al11 Hyperplasia of prostate  M 410 512 6 3 16 17 17 18 16 22 20 30 42 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A108	Acute nephritis	M	28	1	0	1	-	8	10	2	2	2	2	-	-
Allo Infections of kidney	A109		T M	971 512	10	6	49 22	27	401 179	294 166	37 22	31 20	50 30	64 42	1	1
All1 Calculi of urinary system  T 112 4 - 6 3 26 48 4 5 6 10  M 62 5 1 17 24 3 4 2 6  F 50 4 - 1 2 9 24 1 1 4 4 4  All2 Hyperplasia of prostate  M 410 5 3 16 15 106 137 15 29 27 55 - 2  All3 Diseases of breast  T	A110	Infections of kidney	T M	641 357	19 11	2 -	33 18	26 16	153 79	192 84	33 18	40 28	41 22	98 58	-	4 3
A112 Hyperplasia of prostate M 410 5 3 16 15 106 137 15 29 27 55 - 2 A113 Diseases of breast T	A111	Calculi of urinary system	T M	112 62	4	-	6 5	3	26 17	48 24	4 3	5 4	6 2	10 6	-	-
All3 Diseases of breast T	A112	Hyperplasia of prostate			5	3	16	15	106	137	15	29	27	55	-	2
M					_				_	_	-		_	-		-
F	A115	Diseases of preast	M			-	-									
			F	-		-	-			-	-		-		-	

TABLE 14
DEATHS AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST OF 150 CAUSES, CANADA, 1967 (Continued)

Int'l List No.	Cause of death (Intermediate list) (7th Rev.)	Sex	Canada	Nfld.	P. E. I.	N. S.	N. B.	Que.	Ont.	Man.	Sask.	Alta.	в. с.	Yuk- on	NWT
A114	Other diseases of the genito-urinary system	T M F	374 213 161	8 4 4	2 2 -	15 12 3	15 7 8	155 82 73	110 63 47	17 12 5	11 7 4	17 6 11	23 18 5		1 - 1
	XI. DELIVERIES AND COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM 1		88	3	-	3	3	33	29	3	4	5	5	-	-
A115	Sepsis of pregnancy, child-	F	14	-	-	-	-	6	8	-	-	-	-	-	-
A116	birth and the puerperium I Toxaemias of pregnancy	F	13	-	-	-	1	5	3	1	1	2	_	-	-
A117	and the puerperium I Haemorrhage of pregnancy	F	18	1	-	-	-	6	5	_	1	2	3	_	_
A118	and childbirth l Abortion without mention	F	5		_	_	1	_	4	_	_	_	_	_	-
A119	of sepsis or toxaemial Abortion with sepsis1	F	3	_	_	_	_	1	1	_	_	_	1	_	
A120	Other complications of pregnancy, childbirth and the puerperium 1	F	35	2	~	3	1	15	8	2	2	1	1	-	-
	XII, XIII. DISEASES OF THE SKIN AND MUSCULO- SKELETAL SYSTEM	T M F	635 285 350	4 2 2	1 1 -	29 13 16	25 10 15	210 90 120	22 <b>9</b> 107 122	36 13 23	18 9 9	41 20 21	41 19 22	1 1 -	
A121	Infections of skin and subcutaneous tissue	T M F	45 26 19	1 - 1	-	3 1 2	2 - 2	5 3 2	21 14 7	3 2 1	-	5 2 3	5 4 1	- -,	-
A122	Arthritis and spondylitis	T M F	268 103 165	-	-	9 5 4	10 3 7	101 37 64	89 36 53	14 3 11	5 1 4	18 10 8	22 8 14	-	-
A123	Muscular rheumatism and rheumatism unspecified	T M F	4 1 3	-	-	-	-	1 - 1	-	-	-	2 - 2	1 1	-	-
A124	Osteomyelitis and periostitis	T M	15 9	- - -	-	-	1 1	5 2	- 5 4	2	1 1	1 1	-	-	-
A125	Ankylosis and acquired musculoskeletal deformities		6 18 9	-	-	-	-	3 9 5	1 6 3	2 2 1	1	-	-	-	-
A126	All other diseases of skin and musculoskeletal system	F T M F	9 285 137 148	3 2 1	1 1 -	17 7 10	12 6 6	4 89 43 46	3 108 50 58	1 15 7 8	1 11 7 4	15 7 8	13 6 7	1 1 -	-
	XIV. CONGENITAL MALFORMATIONS	T M F	2,128 1,122 1,006	73 34 39	18 8 10	85 52 33	56 31 25	752 390 362	673 344 329	83 49 34	83 48 35	149 88 61	152 76 76	-	4 2 2
A127	Spina bifida and mening- ocele	T M F	262 115 147	11 2 9	2 - 2	7 4 3	10 3 7	122 53 69	83 38 45	7 - 7	2 2	7 5 2	11 8 3	-	-
a.	Without hydrocephalus	T	107	6	1	2 2	3	57 23	26 12	3	-	3	6	-	-
b.	With hydrocephalus	F T M	61 155 69	5 5 1	1 1 -	- 5 2	2 7 2	34 65 30	14 57 26	3 4 ~	2 2	- 4 2	2 5 4	-	-
A128	Congenital malformations of circulatory system	F T M F	86 967 522	29 15	1 9 5	3 41 22	5 19 14	35 334 192	31 305 155	4 37 22	43 22	2 83 49	1 67 26	-	-
A129	All other congenital malformations	T M F	445 899 485 414	14 33 17 16	4 7 3 4	19 37 26 11	5 27 14 13	142 296 145 151	150 285 151 134	15 39 27 12	21 38 24 14	34 59 34 25	41 74 42 32	- - -	- 4 2 2
	XV. CERTAIN DISEASES OF EARLY INFANCY	T M F	4,731 2,742 1,989	222 129 93	29 18 11	192 111 81	191 110 81	1,331 766 565	1,495 879 616	192 111 81	270 158 112	374 208 166	399 231 168	6 2 4	30 19 11
A130	Birth injuries	T	769	26	6	22	30	257	249	37	37	43	57	1	4
A131	Postnatal asphyxia and atelectasis	M F T M	458 311 896 520	17 9 21 11	5 1 3 3	8 14 33 21	14 16 17 9	158 99 274 159	152 97 320 183	23 14 27 15	19 18 35 22	23 20 76 44	35 22 84 51	1 - 1 -	3 1 5 2
A132	Infections of the newborn	T M	376 307 166	10 19 13	1 -	12 9 4	8 17 11	115 80 41	137 105 59	12 14 7	13 19 6	32 10 7	33 26 14	1 1 -	3 6 4
A133	Haemolytic disease of newborn	F T M F	141 149 86 63	6 7 4	1 - -	5 4 3	6 4 3	39 61 36	46 45 25	7 2 2	13	3 9 5	12 8 5	1 -	2 - -
l Per	100,000 live births	ř	63	3	-	1	1	25	20	-	6	4	3	-	-

TABLE 14
DEATHS AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST
OF 150 CAUSES, CANADA, 1967 (Continued)

Int'l List No.	Cause of death (Intermediate list) (7th Rev.)	Sex	Canada	Nfld.	P. E. I.	N.S.	N. B.	Que.	Ont,	Man.	Sask.	Alta.	B. C.	Yuk	NWI
A134	All other defined diseases of early infancy	TM	124 72	1 -	1 -	5 4	4 4	43 22	42 30	7 3	7 5	8 2	5 1	-	1 1
A135	Ill-defined diseases peculiar to early infancy, and immaturity unqualified	F T M F	52 2,486 1,440 1,046	1 148 84 64	1 18 10 8	1 119 71 48	119 69 50	21 616 350 266	734 430 304	105 61 44	163 103 60	6 228 127 101	219 125 94	3 1 2	14 9 5
	XVI. SYMPTOMS, SENIL- ITY, AND ILL-DEFINED CONDITIONS	T M F	977 510 467	103 50 53	8 4 4	31 14 17	29 15 14	191 91 100	199 91 108	46 20 26	52 25 27	277 184 93	36 13 23		5 3 2
A136	Senility without mention of psychosis	T	321 120	50 23	-	15 6	9	59 25	75 20	22	30 11	39 18	21 5	-	1
A137	Ill-defined and unknown causes	F T M F	201 656 390 266	27 53 27 26	8 4 4	9 16 8 8	6 20 12 8	34 132 66 66	55 124 71 53	14 24 12 12	19 22 14 8	21 238 166 72	16 15 8 7	-	- 4 2 2
	EXVII. ACCIDENTS, POIS- ONINGS AND VIOLENCE (Classification according to external cause)	T M F	13,761 9,759 4,002	276 203 73	97 67 30	600 447 153	444 326 118	3,569 2,581 988	4,637 3,195 1,442	675 469 206	709 504 205	1,029 762 267	1,660 1,157 503	22 16 6	43 32 11
AE138	Motor vehicle accidents	T M F	5,522 3,992 1,530	98 68 30	34 21 13	256 196 60	224 160 64	1,687 1,224 463	1,715 1,244 471	213 152 61	300 213 87	433 328 105	551 377 174	6 5 1	5 4 1
a.	Traffic accidents (810-825)	T M F	5,412 3,900	96 67	34 21 13	254 194	222 158	1,666 1,206	1,681	206 145	296 209	419 317	529 360	6 5	3 2
ъ.	Non-traffic accidents	T M	1,512 110 92	29 2 1	-	60 2 2	64 2 2	460 21 18	465 34 28	61 7 7	87 4 4	102 14 11	169 22 17	1 -	1 2 2
AE139	Other transport accidents	F T M F	18 604 560	1 30 29	13 13	61 60	24 20	3 94 82	181 174	45 42	22 21	3 30 27	5 95 83	1 7 1	9
a.	Drowning involving small boats (850)	T M	272 252	20 19	3 3	27 26 1	4 8 7	12 37 35	7 99 95 4	15 15	1 8 8	3 5 3	12 47 38 9	-	3
b.	Drowning involving other watercraft (851)	F T M	20 48 48	2 2	10	22 22	-	2 1 1	4 4	1 1	-	2 - -	8	-	-
c.	Other transport	F T M	284 260	- 8 8	-	12 12	16 13 3	56 46	78 75 3	29 26 3	14 13	25 24 1	40 37 3	-	6
AE140	Accidental poisoning	F T M	24 484 320	3 1	2 2	13 10 3	11 8 3	10 79 53	163 100	20 9	19 15	42 35 7	131 86	-	1
AE141	Accidental falls	F T M F	164 1,704 865 839	2 35 16 19	11 4 7	66 25 41	35 17 18	26 380 214 166	63 687 332 355	88 42 46	4 85 48 37	132 71 61	45 184 95 89	-	1 1
AE142	Accident caused by machinery	T M F	254 238 16	5 4	3 3	9	7 7	56 54 2	89 81 8	15 13 2	17 16 1	21 20 1	31 30 1	-	1
AE143	Accident caused by fire and explosion of combus-	T M F	729 441 288	21 15 6	5 3 2	43 22 21	31 21 10	150 88 62	232 128 104	51 31 20	34 23 11	54 36 18	104 70 34	1 1	3
AE144	Accident caused by hot substance, corrosive liquid,	T	39 24 15	2 - 2	-	2 - 2	3	9 7 2	10 6 4	3 1 2	1	3 2	6 4 2	-	-
AE145	steam, and radiation Accident caused by firearm	T M	155 142	6 4	-	2 2	8	41 38 3	33 32 1	14	15 12 3	14 14	16 15	3	3 1
AE146	Accidental drowning	F T M	13 880 731 149	2 38 33 5	10 9 1	42 35 7	27 22 5	305 259 46	230 188 42	40 30 10	23 16 7	57 48 9	100 84 16	2 2	2 6 5
AE147	All other accidental causes	F T M F	1, 225 896 329	28 25 3	8 7 1	40 32 8	38 29 9	298 225 73	425 301 124	74 51 23	93 65 28	69 48 21	136 106 30	4 2 2	12 5 7
	All accidental causes	T M F	11,596 8,209 3,387	266 195 71	86 62 24	534 391 143	408 295 113	3,099 2,244 855	3,765 2,586 1,179	563 384 179	609 430 179	855 629 <b>226</b>	1,354 950 404	16 13 3	41 30 11
AE148	Suicide	T M	1,841	10	10 5 5	57 50 7	30 25 5	396 294 102	755 538 217	101 80 21	82 62 20	137 110 27	259 177 82	2 2	2 2
AE149	Homicide and injury purposely inflicted by other persons (not in war)	F T M F	488 316 189 127	2 - - -	1 - 1 -	8 5 3 1	6	74 43 31	113 67 46	10 4 6	18 12 6	37 23 14	45 28 17 2	4 1 3 -	
AE150	Injury resulting from operations of war	T M F	8 8 -	-	-	1 -	-	-	4 -	1 -	-	-	2 -	-	-

TABLE 14
DEATHS AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST
OF 150 CAUSES, CANADA, 1967 (Concluded)

Int'l List	Cause of death (Intermediate list)													Yuk-	
No.	(7th Rev.)	Sex	Canada	Nfld.	P. E. I.	N. S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	on	NWT
	NXVII. ACCIDENTS, POIS-	Т	13,761	276	97	600	444	3,569	4,637	675	709	1,029	1,660	22	43
	ONINGS AND VIOLENCE	M	9,759	203	67	447	326	2,581	3,195	469	504	762	1,157	16	32
	(Classification according	F	4,002	73	30	153	118	988	1,442	206	205	267	503	6	11
	to nature of injury)														
AN138	Fracture of skull	Т	3,007	39	10	116	112	1,076	926	99	109	167	346	2	5
		M	2,270	29	6	90	79	805	694	73	90	138	259	2	5
		F	737	10	4	26	33	271	232	26	19	29	87	-	-
AN139	Fracture of spine and	T	689	22	8	36	21	162	212	52	43	52	79	1	1
	trunk	M	460	15	4	25	15	111	137	32	32	35	53	1	-
		F	229	7	4	11	6	51	75	20	11	17	26	-	1
AN140	Fracture of limbs	Т	1,146	24	12	55	21	270	448	57	58	101	100	-	-
		M	457	5	4	17	6	128	172	21	24	46	34	-	-
A D.T.3. 4.3	D1 1 11 11 1	F	689	19	8	38	15	142	276	36	34	55	66	-	-
AN141	Dislocation without	T	15	-	-	2	-	-	6	1	3	-	3	-	-
	fracture	M F	11		-	1	-	-	5	1	1	-	3	-	-
AN142	Sprains and strains of	T	4 2	-	-	1	_	-	1	-	2	-	-	-	-
ANITA	joints and adjacent muscles	M	2	_		_	-	-	1	-	-	1	-	-	-
	Joints and adjacent muscles	F		~	_	_	_	-	1	_	-	1	-	-	-
AN143	Head injury (excluding	T	1,394	17	6	64	49	321	440	74	96	154	162	9	2
	fracture)	M	1,077	14	3	51	34	244	328	61	73	127	135	5	2
	,	F	317	3	3	13	15	77	112	13	23	27	27	4	_
AN144	Internal injury of chest,	Т	2,585	47	13	103	97	581	890	126	181	233	301	4	9
	abdomen, and pelvis	M	2,011	37	12	89	80	456	693	99	133	187	214	4	7
	*	F	574	10	1	14	17	125	197	27	48	46	87	_	2
AN145	Laceration and open wounds	T	193	2	2	7	10	44	75	9	9	17	18		
		M :	158	2	2	6	8	36	61	7	8	14	14	_	_
		F	35	-	-	1	2	8	14	2	1	3	4	_	-
AN146	Superficial injury, contusion		17	-	-	1	-	2	5	2	2	2	3	-	-
	and crushing with intact skin		9	-	-	1	-	1	4	-	2	-	1	-	-
	surface	F	8	-	-	-	-	1	1	2	-	2	2	- 1	-
AN147	Effects of foreign body	Т	432	13	3	13	10	91	186	29	30	20	30	1	6
	entering through orifice	M	262	12	2	9	7	52	107	20	15	16	21	-	1
AN148	D	F	170	1	1	4	3	39	79	9	15	4	9	1	5
AN148	Burns	T	634	18	4	35	24	147	214	35	27	52	75	-	3
		M F	384 250	11	1 3	17 18	19	92	114	23	18	35	51	-	3
AN149	Effects of poisons	Т	1,272	13	4	38	5 26	55	100	12 69	9	17	24	-	-
121117	Directs of borsons	M	770	9	4	27	18	242 144	463 263	38	55 38	105 72	255	1	1
		F	502	4	7	11	8	98	200	31	17	33	155	1	1
AN150	All other and unspecified	T	2,375	81	35	130	74	633	771	122	96	125	288	4	16
	effects of external causes	M	1,888	69	29	114	60	512	616	94	70	91	217	3	13
		F	487	12	6	16	14	121	155	28	26	34	71	1	3

# TABLE 15 DEATH RATES PER 100,000 POPULATION AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST OF 150 CAUSES, CANADA, 1967

Int'	t	Cause of death (Intermediate list) (7th Rev.)	Sex	Canada	Nfld.	P. E. I.	N.S.	N. B.	Que.	Ont.	Man.	Sask.	Alta.	В. С.	Yukon	NWT
		All Causes	T M F	736.5 861.6 610.2	623.4 716.2 526.4	952.3 1,092.4 808.6	876.9 1,006.0 746.3	789, 4 915. 2 662. 2	658.9 767.2 551.0	767.6 887.0 648.4	792.2 940.7 642.5	776.7 955.3 590.0	639.1 776.9 496.2	830.5 985.6 671.3	486.7 597.6 352.9	748.3 810.1 674.2
		I. INFECTIVE AND PARASITIC DISEASES	T M F	5.5 7.0 4.0	6. 0 9. 4 2. 5	4.6 5.4 3.7	7.5 10.5 4.5	5. 6 5. 5 5. 8	7.0 9.5 4.5	4. 4 5. 6 3. 2	5. 7 6. 6 4. 8	5. 2 5. 9 4. 5	4. 8 5. 5 4. 0	4.9 5.8 4.0		31.0 6.3 60.6
A	1	Tuberculosis of respiratory system	M	3.0 4.2	3.0 4.7	-	4. l 6. 6	3.9 3.9	5. l 7. 2	1.8	2. 7 3. 5	1.9	2.1	1.8	-	17.2
a.		Active	T M	1.8 2.3 3.4	1.2 2.4 4.3	-	1.6 2.6 4.2	3.9 3.1 3.5	2, 9 4, 5 6, 5	1.0 1.1 1.7	1.9 1.6 2.5	1.7 0.4 0.8	1.1 1.9 2.9	0.9 1.2 1.9	-	37.9 13.8
b.		Inactive (002. 2, 008. 2)	F T M	1.3 0.7 0.8	0. 4 0. 6 0. 4	-	1.1 1.5 2.4	2.6 0.8 0.3	2.6 0.5 0.8	0.6 0.7 0.9	0.6	1.5	0. 8 0. 2 0. 1	0.5 0.6 0.7	-	30.3
A	2	Tuberculosis of meninges and central nervous system	F T M	0.5 *	0.8	-	0.5 0.1	1.3	0.3 0.1 0.1	0.4	1.3 0.1 0.2	1.7 0.1 0.2	0.3	0.4	-	7.6
A	3	Tuberculosis of intestines	F T M	* * *	-	-	0.3	-	* *	0.1	0.1	-	-	-	-	7.6
A	4	Tuberculosis of bones and joints	T M	* * -	-	- - -	-	- - -	+ + -	*	0.2	-	-	-	-	-
A	5	Tuberculosis, all other forms	F T M	* 0. 2 0. 2	0. 2 0. 4	- - -	0.1	-	* 0. 1 *	* 0.2 0.2	- 0.5 0.8	0.2	0. 1 0. 1	0.2 0.2	-	-
A	6	Congenital syphilis	F T M	0.1	-	-	0.3	-	0.2	0.1 *	0.2	-	0.1	0.2	-	-
A	7	Early syphilis	F T M	-	-	-	-	-	-	-	-	-	-	-	-	-
A	8	Tabes dorsalis	F T M F	本本本	-	-	- - -	-	- 本 - 本 - 本	-	-	-	-	0.1	-	-
A	9	General paralysis of insane	T M F	0.1	0.2	-	-	-	0.1	0.1	-	-	-	0. l 0. l	-	-
A 1	0	All other syphilis	T M F	0.3 0.4 0.1	-	-	0.5	0.2	0. 1 0. 2	0.3 0.5 0.2	0.1	0.6 0.8 0.4	0.4	0.3	-	-
A 1	1	Gonococcal infection	T M F	-	-	-	-	-	-	-	-		-	0.3	-	-
A 1	2	Typhoid fever	T M F	- ※ ※	-	-	-	-	-	` -	-	0.1	-	-	-	-
A 1	3	Paratyphoid fever and other Salmonella	T M F	*	-	-	-	-	* *	* - 0.1	-	-	-	0.1	-	-
A 1	4	Cholera	T M F	-	-	-	-	-	Ē	-	-	-	-	-	-	-
A 1	5	Brucellosis (undulant fever)	T M F	-	-	-	-	-	-	-	-	-		-	-	-
A. 1	6	Dysentery, all forms	T M F	**	-	-	-	-	-	* - *	0.1	0.1	-	0.1 0.1 0.1	-	-
A 1	7	Scarlet fever	T M F	ate ate	-	-	-	-	-	** **	-	-	-	-	-	-
A 1	8	Streptococcal sore throat	T M F	* *	-	-	0.1	-	***	-	-	-	-	0.1	-	-
A l	9	Erysipelas	T M F	# 14 14 14 14 14 14 14 14 14 14 14 14 14	-	-	-	0.2	-	0.1	-	-	-	-	-	-
A 2	0	Septicaemia and pyaemia	T M F	0. 2 0. 3 0. 1	0.6	0.9	0.4	-	0. 1 0. 2 0. 1	0.3 0.4 0.2	0.3 0.2 0.4	0.4	0.3 0.3 0.3	0. 1 0. 1 0. 1	-	-
A 2	1	Diphtheria	T M F		-	-	-	-	-	-		-	-	-		-
A 2	2	Whooping cough	T M F	0. 1 0. 1 0. 1	0. 2	-	-	-	0. 1 0. 1 0. 1	0.1	-	0. 2 0. 2 0. 2	0. 2	0.1	-	-
A 2	3	Meningococcal infections	T M F	0. 2 0. 2 0. 1	1.0	-	0.3	0.3 0.3 0.3	0. 2 0. 2 0. 1	0. 2 0. 2 0. 1	-	0.1	0. 1 0. 1 0. 1	0.3 0.2 0.3	-	-

TABLE 15
DEATH RATES PER 100,000 POPULATION AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST OF 150 CAUSES, CANADA, 1967 (Continued)

Int Li:	st	Cause of death (Intermediate list) (7th Rev.)	Sex	Canada	Nfld.	P. E. I.	N. S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	В. С.	Yukon	NWI
A	24	Plague	Т	-	-	-	-	-	-	-	-	-	-	-	-	-
			M F	-	-	-	-	-	-	-	- :	-	-	-	-	-
A	25	Leprosy	T M	_	-	-	-	-	-	-	-	-	-	-	-	-
	24	Tataana	F T	-	-	-	-	0.2	-	0.1	0, 1	-	-	0.1	-	-
A	20	Tetanus	M	*	-	-	-	-	-	0.1	0. 2	-	-	0.1	-	-
A	27	Anthrax	F T	*	-	-	_	0.3	-	-	-	-	-	-	-	-
			M F	-	-	-	-	-	-	-	-	-	-	-	-	-
Α	28	Acute poliomyelitis	Т	-	-	-	-	-	-	-	-	-	-	-	-	-
			M F	-	-	-	-	-			-	-	-	-	-	-
Α	29	Acute infectious encephalitis	T M	0.2	0.4	-		0, 2	0.1	0.3	-	_	0.4	0. l 0. l	-	-
	20		F T	0. 2 0. 2	0.4	-	0.7	0.3	0. l 0. l	0.3	0.4	0.3	0.3	0.1	-	-
Α	30	Late effects of acute polio- myelitis and acute infectious	s M	0.2	-	_	0.5	0.3	0.2	0.1	0.6	0.6	-	0.1	-	-
A	31	encephalitis Smallpox	F T	0.1	-	-	0.8	-	0.1	0.1	0.2	-	-	-	_	-
		*	M. F	-	-	-	-	-	-	-	-	-	_	-	-	-
A.	32	Measles	T	0.2	-	_	-	0.3	0.2	0.1 0.1	0.7	0.6 0.4	0.4 0.1	0.2	-	3.4
			M F	0. 1 0. 3	-	-	-	0.6	0.1	0.1	1.5	0.4	0.7	0. 2	-	7.6
A	33	Yellow fever	T M	-	-	-	-	-	-	-	-	-	-	-	-	-
٨	2.4	Infrationa honotitic	F T	0.4	0.2	0.9	0.4	0.2	0.2	- 0. 4	-	0,1	0.3	- 1, 1	_	3, 4
A	34	Infectious hepatitis	M.	0,4	0.4	1.8	0.3	-	0.3	0.5	-	-	0.3	0.8	_	6.3
A.	35	Rabies	F	0.3	-	-	0.5	0.3	0.1	0.3	-	0.2	0.3	1.5	-	-
			M F	- 1/4	-	-	-	-	-	- *	-	-	-	-	-	-
A	36	Typhus and other	T	-	_	_	-	-	-	-	-	_	_	-	_	-
		rickettsial diseases	M	-	-	-	-	_	_	-	-	-	-	-	_	-
Α	37	Malaria	T	-	-	-	-	-	-	-	-	-	-	-	-	-
			M F	-	-	_	-	-	-	-	-	-	_	-	-	-
Α	38	Schistosomiasis	T	_	-	-	-	-	-	-	-	-	-	-	_	-
	2.0	YY 3 . ' 3 3'	F	-	-	-	-	-	-	-	-	-	-	-	-	-
A	39	Hydatid disease	M	-	-	_	_	-	-	-	_	-	-	-	-	-
А	40	Filariasis	F	-	-	_	_	-	-	-	-		-	-	_	-
			M F	-	-	-	-	-	-	-	-	-	-	-	-	-
А	41	Ankylostomiasis	Ţ	-	-	_	-	_	_	_	-	-	-	-	_	-
			M F	-	-	-	-	-	-	-	-	-	-	-	_	-
А	42	Other diseases due to helminths	T M.	-	-	-	-	-	-	-	-	-	-	-	-	-
			F	-		-	-	- 2	- 4	-		- 4		- 4	-	- 3.4
A	43	All other diseases classified as infective	T M	0.3	0.2	2.8	0.8	0.2	0.4	0.4	0.5	0.4	0.5	0.4	-	-
		and parasitic	F	0.5	0,4	1.9	0.5	0.3	0.4	0.4	0.4	0.9	0.7	0.1	-	7.6
		II. NEOPLASMS	M F	138.8 152.9 124.5	105.8 117.8 93.3	160.6 157.6 163.6	158.3 168.7 147.7	133.5 139.3 127.7	135. 4 146. 8 124. 0	154.9		153.2	133.8	176.2	73. 3 109. 8 29. 4	79.3 82.3 75.8
		All malignant neoplasms (A44-A59)	T M F	137.3 151.4 123.0	103. 6 115. 9 90. 8	158. 7 155. 8 161. 7	155. 4 166. 1 144. 5	132.3 137.7 126.7	133.7 145.0 122.4	139.6 153.5 125.7	152. 1 174. 1 130. 0	133, 1 151, 5 113, 8	116.7 132.6	153.3 175.2	73. 3 109. 8 29. 4	75. 9 82. 3 68. 2
A	44	Malignant neoplasm of buccal cavity and pharynx	T M F	2.8 4.2 1.3	2. 4 3. 1 1. 6	2. 8 5. 4	2. 5 3. 9 1. 1	2.3 3.2 1.3	3.3 5.8 0.9	2.8 4.0 1.6	2. 8 3. 7 1. 9	1.8 2.2 1.3	1.9 2.8 1.0	2.5 3.2 1.8	-	-
A	45	Malignant neoplasm of oesophagus	T M F	2. 4 3. 4	2. 2	1.8	3. 0 4. 5	0.8	2.0	2.8 4.1	3, 1 3, 9	1.4 2.0	2. 0 2. 9	2.7	-	3. 4 6. 3
А	46	Malignant neoplasm of stomach	T	1.3 12.7 16.6	0.8 18.6 22.7	18.3 27.2	1. 6 14. 4 20. 8	0.6 14.2 13.8	0.9 13.3 17.2	1.5 10.7 14.1	2. 3 14. 6 19. 0	0.6 15.7 20.4	1. 1 11. 4 15. 2	1.7 14.2 19.6	-	3. 4 6. 3
A	47	Malignant neoplasm of intestine, except rectum	F T M	8. 8 16. 2 14. 7	14.3	9, 3 17, 4 14, 5	8. 0 22. 6 19. 7	14.6 17.7 15.4	9. 4 16. 2 13. 6	7. 3 16. 8 15. 6	10. 2 16. 9 16. 7	10.7 12.7 12.7	7. 5 12. 8 12. 4	8. 6 16. 2 16. 0	-	6.9
A	48	Malignant neoplasm of rectum	F T M F	17. 6 6. 1 7. 3 4. 8	11.5 4.6 4.3 4.9	20. 4 7. 3 7. 2 7. 4	25. 5 5. 7 7. 1 4. 3	20. 1 5. 6 6. 4 4. 9	18.9 5.6 6.8 4.5	18.0 6.7 8.1 5.3	17. 1 5. 5 7. 2 3. 8	12. 8 5. 3 6. 5 4. 1	13. 1 5. 5 6. 7 4. 2	16.3 6.6 7.7 5.4	13.3 24.4	7.6 3.4 - 7.6

TABLE 15

DEATH RATES PER 100,000 POPULATION AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST OF 150 CAUSES, CANADA, 1967 (Continued)

Int'l List No.	Cause of death (Intermediate list) (7th Rev.)	Sex	Canada	Nfld.	P. E. I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	В. С.	Yukon	NWT
A 49	Malignant neoplasm	Т	1.1	1.4	1.8	1.5	1.0	1.4	1.1	0.9	0.7	1.0	0.6	- ukon	14 44 1
A 50	of larynx  Malignant neoplasm of trachea and of bronchus and lung not specified as secondary	M F T M F	2. 0 0. 2 21. 2 36. 1 6. 1	2. 7 - 14. 6 22. 7 6. 1	3. 6 - 15. 6 25. 4 5. 6	2. 6 0. 3 23. 6 38. 9 8. 2	1.9 - 14.5 26.3 2.6	2. 3 0. 4 18. 7 31. 9 5. 6	2. 0 0. 2 23. 0 40. 0 5. 9	1.7 0.2 26.0 44.0 7.7	1.2 0.2 17.2 28.8 5.1	2. 0 16. 8 27. 5 5. 7	1.1 0.1 27.6 46.7 7.9	40.0 48.8 29.4	31.0 38.0 22.7
A 51	Malignant neoplasm of breast	T M F	13.1 0.2 26.0	6. 2	14.7 1.8 27.9	13. 2	13, 7 - 27. 6	13.3 0.2 26.4	13.7 0.3 27.1	12. 8 0. 2 25. 4	10.5	10.5 0.1 21.2	14.9 0.2 30.0	-	10.3
A 52	Malignant neoplasm of cervix uteri	F	6.4	6.5	3. 7	10.6	7.8	6.9	6.9	3, 8	3.8	4.2	5.3		7.6
A 53	Malignant neoplasm of other and unspecified parts of uterus	F	4.4	2.0	9. 3	2. 7	3.9	5.9	4.3	6.9	2. 8	2.5	2. 2	-	-
A 54	Malignant neoplasm of	М	14.2	5.1	14.5	16.0	15.1	13.3	12.8	18. 2	20.2	13.0	19.7	12. 2	-
A 55	Malignant neoplasm of skin	T M F	1.8 2.2 1.5	0.4	-	2. 4 2. 9 1. 9	2.4	1.7	2.0	1.9	2.3	1.3	1.7	-	-
A 56	Malignant neoplasm of bone and connective tissue Malignant neoplasm of all other and unspecified sites	T M F T M	1. 4 1. 7 1. 2 33. 4 33. 8 32. 9	1. 2 0. 4 2. 0 26. 4 29. 4 23. 3	1.8 - 3.7 50.5 48.9 52.0	1. 7 2. 4 1. 1 38. 7 34. 9 42. 5	2.6 1.6 1.0 2.3 33.4 37.6 29.2	1. 4 1. 7 2. 0 1. 4 31. 1 31. 7 30. 5	1.4 1.2 1.7 0.8 34.1 34.1	1. 9 0. 9 0. 6 1. 3 36 8 38. 5 35. 0	2.1 1.4 1.4 1.3 37.2 37.8 36.5	0, 8 1, 3 1, 4 30, 1 31, 1 29, 1	2. 1 1. 7 1. 7 1. 8 36. 0 36. 2 35. 7	13.3	10.3
a.	Other digestive organs (155-159)	T M F	12.8 13.7 11.9	8. 4 10. 2 6. 5	19. 3 16. 3 22. 3	14.7 13.7 15.7	12.6 17.0	12.6 13.2 11.9	12.7	14.1	13. 2	11.1	14.9 17.0	6.7 12.2	6. 9 12. 7
b.	Other respiratory organs (160, 164, 165)	T M F	0. 7 0. 9 0. 4	0.4	-	0.9 1.1 0.8	0.2	0.5	11.9 0.9 1.1	13.6 1.0 1.7 0.4	13.7 0.8 1.2 0.4	9. 6 0. 2 0. 4	12.7 0.5 0.7 0.2	-	-
c.	Urinary organs (180, 181)	T M F	6.8 9.4 4.2	5, 2 7, 4 2, 9	13.8 19.9 7.4	7. 7 8. 9 6. 4	7. 4 12. 5 2. 3	5. 9 8. 4 3. 4	7.5 10.1 4.8	8. 2 12. 0 4. 4	6. 1 9. 2 2. 8	6. 4 9. 0 3. 7	6. 6 8. 2 5. 0	-	-
d.	Brain and other parts of nervous system (193)	T M F	3.8 4.5 3.1	3. 2 3. 9 2. 5	5. 5 7. 2 3. 7	2. 8 3. 2 2. 4	4. 0 3. 5 4. 5	4. 0 4. 7 3. 3	3.6 4.2 2.9	3. 9 5. 0 2. 9	5.3 6.3 4.3	3.5 4.3 2.6	4. 2 5. 2 3. 2	-	3. <b>4</b> 6. 3
e.	Other	T M F	9.3 5.3 13.4	9.2 7.0 11.5	11.9 5.4 18.6	12.7 8.1 17.3	9. 2 4. 5 13. 9	8. 1 4. 5 11. 7	9.5 5.3 13.7	9. 4 5. 2 13. 8	11, 8 8, 4 15, 4	8. 9 4. 7 13. 3	9.8 5.1 14.6	6.7	-
A 58	Leukaemia and aleukaemia	T M F	5. 9 6. 9 5. 0	3.8 4.7 2.9	5. 5 5. 4 5. 6	4.8 6.6 2.9	5. 5 7. 1 3. 9	5. 6 6. 7 4. 6	6. 1 6. 5 5. 7	7, 3 9, 1 5, 4	6. 2 6. 9 5. 3	5. 8 7. 4 4. 2	6.9 8.0 5.8	-	-
A 59	Lymphosarcoma and other neoplasms of lymphatic and haematopoietic system	T M F	6. 8 8. 1 5. 4	3. 6 5. 1 2. 0	7. 3 1. 8 13. 0	6, 6 5, 8 7, 4	6. 1 6. 7 5. 5	6. 6 8. 5 4. 7	6. 7 7. 7 5. 7	8. 2 9. 3 7. 1	7. 2 8. 8 5. 6	6. 2 8. 3 4. 1	8. 0 9. 9 6. 0		3.4
a.	Hodgkin's disease (201)	T M F	1.7 2.2 1.2	1. 2 2. 3	1.8 1.8 1.9	1.6 1.3 1.9	1.5 1.3 1.6	1.8 2.4 1.2	1.5 1.8 1.2	1.6 1.4 1.7	1.6 2.2 0.9	1.7 2.5 1.0	2. 4 3. 9 0. 8	-	-
ь.	Other	T M F	5. 1 5. 9 4. 2	2. 4 2. 7 2. 0	5. 5 - 11. 2	5. 0 4. 5 5. 6	4. 7 5. 5 3. 9	4. 8 6. 1 3. 5	5. 2 5. 8 4. 6	6. 6 7. 9 5. 4	5. 6 6. 5 4. 7	4. 5 5. 8 3. 1	5. 6 6. 1 5. 2	-	3.4
A 60	Benign neoplasms and neoplasms of unspecified nature	T M F	1.6 1.6 1.6	2. 2 2. 0 2. 5	1.8 1.8 1.9	2. 9 2. 6 3. 2	1.3 1.6 1.0	1.7 1.8 1.5	1.4 1.4 1.4	1. 8 1. 7 1. 9	1.8 1.6 1.9	1. 2 1. 2 1. 2	1.2 1.0 1.5	-	3. 4 - 7. 6
	III, IV. ALLERGIC DIS- ORDERS AND ENDOCRINE METABOLIC AND BLOOD DISEASES	T M F	20.3 19.1 21.4	13.8 15.3 12.3	18.3 10.9 26.0	28. 3 23. 6 32. 9	23. 5 18. 9 28. 2	24. 6 22. 9 26. 2	18. 4 17. 6 19. 1	17. 2 15. 1 19. 4	21, 8 23, 5 20, 1	17.5 18.6 16.4	14.8 13.3 16.4	-	17. 2 19. 0 15. 2
A 61	Nontoxic goitre	T M F	* * 0.1	-	-	-	-	0.1 * 0.2	-	-	0.1	-	0.1	-	3.4
A 62	Thyrotoxicosis with or without goitre	T M F	0.1	0. 4 0. 4 0. 4	-	0.1	0.3 0.3 0.3	0. 1 * 0. 1	0.1	0. 2 0. 2 0. 2	0.1	-	0.1	-	-
A 63	Diabetes mellitus	T M F	13. 2 11. 5 14. 8	9. 4 9. 8 9. 0	11.9 5.4 18.6	18. 0 12. 9 23. 1	16.5 10.6 22.4	16.3 14.1 18.5	11.7 10.7 12.8	10.0 6.2 13.8	15.0 15.3 14.7	12.0 11.9 12.2	8. 9 7. 9 9. 9	-	3.4 6.3
A 64	Avitaminosis and other deficiency states	T M F	0.3 0.3 0.3	0.4	-	0.8 0.3 1.3	0.5 0.6 0.3	0. 2 0. 1 0. 2	0.3 0.3 0.4	0.5 0.6 0.4	0. 2 0. 2 0. 2	0.2	0.5 0.5 0.5		6.9
A 65	Anaemias	T M F	1. 7 1. 7 1. 8	1. 2 2. 0 0. 4	1.8 1.8 1.9	1.7 1.6 1.9	1.6 2.9 0.3	2. 0 1. 7 2. 3	1.8 1.7 1.9	1.8 2.3 1.3	2. 0 2. 0 1. 9	1.1 1.4 0.8	1.1 0.9 1.2	-	
A 66	Allergic disorders; all other endocrine, metabolic and blood diseases	T M F	4. 9 5. 5 4. 3	2. 4 2. 3 2. 5	4.6 3.6 5.6	7. 7 8. 9 6. 4	4.7 4.5 4.9	5. 8 6. 8 4. 9	4. 4 4. 9 3. 9	4. 8 5. 8 3. 8	4. 4 5. 7 3. 0	4. 2 4. 9 3. 4	4. 2 4. 0 4. 5	- - -	3. 4 - 7. 6

TABLE 15
DEATH RATES PER 100,000 POPULATION AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST OF 150 CAUSES, CANADA, 1967 (Continued)

Int'l List No.	Cause of death (Intermediate list) (7th Rev.)	Sex	Canada	Nfld.	P. E. I.	N. S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	В.С.	Yukon	NWT
	V. MENTAL, PSYCHO- NEUROTIC, AND PERSO- NALITY DISORDERS	T M F	2. 7 3. 3 2. 0	1.6 1.2 2.0	4.6 7.2 1.9	3. 4 4. 7 2. 1	2.3 2.9 1.6	2. 8 3. 2 2. 4	2.7 3.7 1.8	2. 1 1. 7 2. 5	2.0 2.0 1.9	2. 0 3. 2 0. 8	3. 0 4. 1 2. 0	6.7	3.4 6.3
A 67	Psychoses	T M F	0.9 0.9 0.8	0. 4 - 0. 8	0.9 1.8	0.9 1.1 0.8	0.6 1.0 0.3	1.0 1.0 1.1	0.9 0.8 1.0	0.4 0.4 0.4	0.8 1.2 0.4	0.5 0.5 0.4	0.8 1.2 0.4	-	3.4 6.3
A 68	Psychoneuroses and disorders of personality	T M F	1.4 2.0 0.7	0.2	3.7 5.4 1.9	2. 1 3. 2 1. 1	1.1 1.6 0.6	0.9 1.3 0.4	1.6 2.7 0.5	1.2 1.0 1.5	0.7 0.6 0.9	1.5 2.6 0.4	2. 1 2. 8 1. 4	6.7	-
A 69	Mental deficiency	M F	0.5 0.4 0.5	1.0 1.2 0.8	- -	0. 4 0. 5 0. 3	0.5 0.3 0.6	0.9 0.9 0.9	0.3 0.2 0.3	0. 4 0. 2 0. 6	0.4 0.2 0.6	-	0.1	-	-
	VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	T M F	83.6 82.2 85.0	91.4 94.7 87.9	121.1 117.8 124.5	116. 1 112. 7 119. 6	89. 4 80. 3 98. 5	66. 3 65. 4 67. 1	87.3 84.7 89.9	92.3 98.6 85.9	90.5 95.6 85.2	75.5 79.1 71.8	102. 4 94. 5 110. 5	33.3 48.8 14.7	69.0 69.6 68.2
A 70	Vascular lesions affecting central nervous system	T M F	75. 7 73. 7 77. 8	83. 6 88. 5 78. 5	111.0 106.9 115.2	107.3 104.3 110.3	81.9 72.2 91.7	57. 1 55. 0 59. 2	80.8 77.9 83.7	83. 9 89. 7 78. 0	81.3 83.7 78.8	68. 4 72. 4 64. 3	94. 7 86. 0 103. 6	33.3 48.8 14.7	24. 1 25. 3 22. 7
A 71	Nonmeningococcal meningitis	T M F	0.7 0.8 0.6	0. 2	0. 9	1. 5 1. 6 1. 3	1.0	0.7	0.5 0.6 0.4	0. 8 0. 8 0. 8	0.8 1.2 0.4	0. 4 0. 4 0. 4	1.0		37. 9 44. 3 30. 3
A 72	Multiple sclerosis	T M F	0.9 0.7 1.2	1. 0 0. 8 1. 2	0.9 1.8	1. 2 1. 3 1. 1	0.8	1.0	0.7 0.4 1.0	1.0 0.6 1.5	0.8 0.6 1.1	0. 9 0. 5 1. 4	1.1	-	3. 4
A 73	Epilepsy	T M F	1.1 1.3 0.8	1.0 0.8 1.2	0.9 1.8	0.8 0.8 0.8	1.3 1.9 0.6	1.4 1.7 1.1	0.8	0.7 1.0 0.4	2. 3 3. 3 1. 3	1.3 1.4 1.1	0.8 1.0 0.5	-	3.4
A 74	Inflammatory diseases of eye	T M F	2)c	-		- - -	-	-	* * -	-	-	-	-	- - -	-
A 75	Cataract	T M F	**	-	- - -	-	0, 2	* 0.1 -	* * -	- - -	- - -	-	0.1	- - -	-
A 76	Glaucoma	T M F	- - -	-	- - -	-	-	-	- -	- - -	- - -	-	-	-	-
A 77	Otitis media and mastoiditis	T M F	0.3 0.5 0.2	0.2	-	0. 1 0. 3	0.3	0.7 1.0 0.5	0.2 0.3 0.1	- - -	0. 2 0. 2 0. 2	0.3 0.4 0.1	0.2	-	-
A 78	All other diseases of the nervous system and sense organs	T M F	4.8 5.2 4.4	5. 4 4. 3 6. 5	7.3 5.4 9.3	5. 3 4. 5 6. 1	3.9 4.5 3.2	5. 3 6. 1 4. 5	4. 3 4. 6 3. 9	5. 8 6. 4 5. 2	5. 0 6. 5 3. 4	4. 2 4. 0 4. 5	4.6 5.0 4.2	- - -	-
	VII. DISEASES OF THE CIRCULATORY SYSTEM	T M F	293. 9 354. 4 232. 9	200. 6 234. 1 165. 6	407.3 492.8 319.7	350. 9 412. 5 288. 5	333.2 413.8 251.9	250.3 302.0 198.8	326.3 385.3 267.4	311.6 381.1 241.6	304.6 392.7 212.5	224. 8 284. 4 163. 0	332.9 407.9 255.9	126.7 134.1 117.6	62. 1 82. 3 37. 9
A 79	Rheumatic fever	T M F	0. 1 0. 1 0. 1	-	-	-	0.3	0.1	0.2	-	0.2 0.4	-	0.1 0.1	-	-
A 80	Chronic rheumatic heart disease	T M F	6.3 5.2 7.3	4. 0 2. 7 5. 3	11.0 12.7 9.3	5. 7 4. 7 6. 6	0.3 4.2 4.2 4.2	0. 1 7. 1 5. 7 8. 5	0.3 5.9 5.4 6.4	7.1 5.8 8.3	6.8 6.7 6.8	5. 4 3. 4 7. 4	6.5 4.8 8.2	-	-
A 81	Arteriosclerotic and degenerative heart disease	T M F	237.9 298.3 177.0	149.8 184.3 113.7	315.6 409.4 219.3	276.0 343.4 207.8	273.4 349.9 196.1	198. 2 253. 1 143. 4	272.1 332.0 212.3	245. 2 311. 6 178. 1	222. 2 298. 1 142. 9	178.7 236.2 119.1	277. 7 346. 9 206. 6	106. 7 109. 8 102. 9	44.8 69.6 15.2
A 82	Other diseases of heart	T M F	11. 2 12. 1 10. 3	15.6 13.3 18.0	9. 2 3. 6 14. 9	17. 6 18. 4 16. 7	13.9 16.7 11.0	9. 1 9. 6 8. 7	9.8 10.4 9.3	14.3 14.7 14.0	26.0 34.1 17.5	11.0 12.1 9.8	9. 4 9. 7 9. 1	13.3 12.2 14.7	17. 2 12. 7 22. 7
A 83	Hypertension with heart disease	T M F	10.7 9.0 12.4	10.6 10.6 10.6	0.3 19.9 33.5	11. 2 9. 5 13. 0	11.1	13. 4 10. 2 16. 7	9.9 8.2 11.5	7. 4 6. 6 8, 1	12. 2 10. 2 14. 3	4.7 4.3 5.1	10. 2 11. 0 9. 5	-	-
A 84	Hypertension without mention of heart	T M F	3. 2 3. 1 3. 3	3.0 2.3 3.7	14.7 16.3 13.0	3.7 3.7 3.7	4. 2 3. 9 4. 5	3, 5 3, 3 3, 7	2. 8 2. 5 3. 1	3.9 4.5 3.3	2. 7 2. 2 3. 2	3. 1 3. 4 2. 7	2. 7 3. 2 2. 2	-	-
A 85	Diseases of arteries	T M F	20. 5 22. 2 18. 8	14.0 16.8 11.0	24.8 23.6 26.0	31. 4 27. 9 35. 1	22.6 23.8 21.4	17. 0 18. 2 15. 7	21. 4 22. 5 20. 3	24. 3 27. 3 21. 3	26.9 32.1 21.6	17.5 19.6 15.3	22.3 27.1 17.4	6. 7 12. 2	-
A 86	Other diseases of circulatory system	T M F	4. 0 4. 2 3. 7	3.6 3.9 3.3	5. 5 7. 2 3. 7	5. 3 5. 0 5. 6	3.5 4.2 2.9	1.9 1.8 2.0	4. 2 4. 2 4. 2	9. 4 10. 5 8. 3	7.5 8.8 6.2	4. 4 5. 3 3. 6	4. 1 5. 2 3. 0	-	
	VIII. DISEASES OF THE RESPIRATORY SYSTEM	T M F	42. 2 54. 9 29. 5	40. 2 49. 3 30. 7	53. 2 67. 0 39. 0	45. 4 57. 3 33. 5	42.6 47.5 37.6	27. 5 36. 7 18. 3	46.7 60.2 33.1	63. 0 77. 8 48. 2	56. 9 74. 1 38. 9	36. 8 46. 9 26. 3	54. 3 76. 0 32. 1	36.6	134.5 126.6 143.9
A 87	Acute upper respiratory infections	T M F	0.5 0.6 0.3	0.4	-	0.9	1.0	0.1	0.4	0.7	0.6	0.6	1.2	-	-
A 88	Influenza	T M F	1.3 1.2 1.3	1.6 1.6 1.6	4. 6 5. 4 3. 7	0.3 1.1 0.8 1.3	0.3 1.5 2.2 0.6	0. 2 1. 6 1. 4 1. 8	0.4 1.2 1.1 1.2	0. 4 0. 6 0. 4 0. 8	0.4 1.3 0.8 1.7	0. 4 0. 8 1. 1 0. 5	0.6 1.2 1.4 0.9	-	6. 9 6. 3 7. 6

TABLE 15

DEATH RATES PER 100,000 POPULATION AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST OF 150 CAUSES, CANADA, 1967 (Continued)

Int'l List No.	Cause of death (Intermediate list) (7th Rev.)	Sex	Canada	Nfld.	P. E. I.	N.S.	N. B.	Que.	Ont.	Man.	Sask.	Alta.	В. С.	Yukon	NWT
A 89	Lobar pneumonia	T	2, 5	3, 0 3, 1	2. 8	3.4	2.4	0.8	3, 0	3.8	3.0	1.8	5.0	6.7	3.4
A 90	Bronchopneumonia	F T M	1.9 14.7 16.7	2. 9 12. 2 13. 7	3.7 11.0 12.7	2, 9 10, 7 11, 8	1.9 14.0 14.8	1.0 0.5 7.4 8.8	3.9 2.2 17.9 19.3	5. 2 2. 5 29. 0 32. 3	3.5 2.6 22.4 27.6	2.0 1.6 11.5 12.7	6.8 3.2 19.2 24.7	12. 2 - 6. 7 12. 2	6. 3 - 37. 9 31. 6
A 91	Primary atypical, other and unspecified pneumonia	F T M	12. 7 7. 0 8. 0	10.6 11.8 12.5	9.3 16.5 19.9	9. 6 10. 0 10. 8	13.3 8.9 6.1	6. 0 3. 2 3. 9	16.5 7.8 9.2	25.7 10.0 9.5	17.1 8.5 9.8	10.3 6.8 7.8	13.5 9.3 11.2	13.3	45. 5 55. 2 50. 6
A 92	Acute bronchitis	F T M F	6. 1 0. 4 0. 5	11. 0 0. 8 1. 2	13.0	9.3 0.9 0.8	11.7 0.5 0.6	2.6 0.4 0.3	6.4 0.3 0.5	10.4 1.1 1.0	7. 0 0. 2 0. 2	5.7 0.2 0.3	7.4 0.4 0.5	29. 4	60.6
A 93	Bronchitis, chronic and unqualified	T	0. 4 6. 0 10. 0	0. 4 3. 2 5. 5	9. 2 10. 9	1. 1 9. 2 14. 5	0.3 5.2 6.4	0.5 5.8 9.5	0. 2 6. 1 10. 6	1.3 5.4 9.3	0. 2 6. 3 10. 0	0. 1 5. 0 8. 0	0, 2 6, 9 11, 4	6.7 12.2	3, 4 6, 3
A 94	Hypertrophy of tonsils and adenoids	F T M	2. 1 0. 1 0. 1	0.8	7.4	4.0	3.9 0.2 0.3	2. 2 0. 1 0. 1	1.7 **	1.5	2.3 0.1 0.2	1.8 0.3 0.3	2.4	-	-
A 95	Empyema and abscess of lung	F T M	0. 1 0. 4 0. 5	0.6	-	0. I 0. 3	0.8 1.0	0.1 0.3 0.3	0.5 0.7	- 0.3 0.2	0.6 0.8	0.3 0.1 0.3	0.1 0.4 0.6	-	-
A 96	Pleurisy	F T M	0. 2 0. 2 0. 3	0. 4 0. 2 0. 4	-	0.3	0.6	0.2 0.4 0.5	0.3 0.3 0.3	0.4 0.1 0.2	0.4	0, 3	0.1	-	-
A 97	All other respiratory diseases	F T M F	0.2 9.0 13.8 4.3	6. 4 9. 8 2. 9	9. 2 16. 3 1. 9	8.7 12.3 5.0	0.3 8.1 11.6 4.5	0. 2 7. 4 10. 8 3. 9	0. 2 9. 1 14. 2 4. 0	11. 9 18. 6 5. 2	0. 2 13. 8 20. 4 6. 8	0. 4 9. 4 13. 6 5. 1	10.7 17.7 3.5	-	27.6 25.3 30.3
	IX. DISEASES OF THE DIGESTIVE SYSTEM	T M F	27.5 31.9 23.2	18. 2 20. 7 15. 5	29. 4 41. 7 16. 7	26. 9 29. 2 24. 7	24. 2 29. 5 18. 8	26. 7 30. 9 22. 5	28, 2 32, 2 24, 1	27. 4 32. 2 22. 5	29. 7 38. 0 21. 1	24. 4 27. 4 21. 2	32. 7 37. 7 27. 5	13. 3 24. 4	41.4 31.6 53.0
A 98	Diseases of teeth and supporting structures	T	* *	-	-	-	-	-	※	-	-	-	0. 1 0. 1	-	-
A 99	Ulcer of stomach	T M	* 2.5 3.5	1. 8 3. 1	1.8 3.6	3. 0 4. 2	2. 9 4. 2	2. 6 3. 9	0. 1 2. 3 3. 2	2. 0 2. 5	2, 7	1.6	3, 0 4, 7	-	3. 4 6. 3
A100	Ulcer of duodenum	F T M	1.4 2,2 3,3	0. 4 1. 0 2. 0	1.8 1.8	1.9 3.2 4.7	1.6 1.6 2.9	1.3 1.3 1.9	1.5 2.5 3.8	1.5 2.7 3.9	2. 1 2. 6 4. 5	1. 2 2. 1 2. 8	1.4 3.5 5.4	-	-
A101	Gastritis and duodenitis	F T M	1.0 0.2 0.2	-	1.9 1.8 3.6	1.6	0.3 0.3 0.3	0.6 0.2 0.2	1.1 0.2 0.3 0.1	1.5 0.1 0.2	0.6 - -	1.5 0.1 0.1	1.6 0.2 0.1	-	-
A102	Appendicitis	F T M	0. 1 0. 5 0. 8	0.2	-	0.1	0.3 0.2 0.3	0. 5 0. 8 0. 1	0. 6 0. 8 0. 5	0.5 0.8 0.2	1.0 1.4 0.6	0.5	0. 8 1. 1 0. 4	-	-
A103	Intestinal obstruction and hernia	F T M	0.3 4.4 4.5	0.4 3.8 3.9 3.7	3.7 5.4 1.9	5. 5 5. 0 6. 1	3. 9 2. 9 4. 9	3. 8 4. 1 3. 6	4.9	4. 8 5. 0 4. 6	4. 4 5. 1 3. 6	4. 0 4. 7 3. 1	4. 9 4. 5 5. 3	-	-
A104	Gastro-enteritis and colitis, except diarrhoea	F T M	4.3 3.4 3.1	3. 0 2. 7	4.6 3.6	3. 7 2. 9	3, 5 5, 1	3. 0 2. 8	3. 2	3, 5 3, 5	5. 1 5. 3	3. 8 2. 6	3, 4 3, 1	-	20.7
A105	of the newborn Cirrhosis of liver	F T M F	3.6 7.2 9.1 5.2	3.3 4.0 4.3 3.7	5. 6 4. 6 7. 2 1. 9	4. 5 3. 3 4. 7 1. 9	1.9 5.6 7.4 3.9	3. 1 7. 9 10. 1 5. 6	3.4 7.6 9.5 5.6	3.5 6.4 8.1 4.8	4. 9 5. 6 8. 2 3. 0	4. 9 5. 2 6. 3 4. 0	3. 7 8. 9 10. 6 7. 2	6.7	30. 3 10. 3 6. 3
A106	Cholelithiasis and cholecystitis	T M F	3. 0 2. 5 3. 5	1.0	2.8	1.5 0.8 2.1	2. 1 1. 3 2. 9	3.7 3.0 4.5	2. 6 2. 1 3. 1	2. 8 2. 7 2. 9	3. 1 3. 7 2. 6	3. 0 2. 2 3. 7	3.8 4.0 3.6	-	-
A107	Other diseases of digestive system	T M F	4. 2 4. 8 3. 7	3. 4 3. 5 3. 3	8. 3 16. 3	6. 6 6. 6 6. 6	4. 0 5. 1 2. 9	3, 8 4, 1 3, 5	4. 2 4. 6 3. 8	4. 6 5. 6 3. 5	5. 1 6. 5 3. 6	4. 2 5. 7 2. 7	4. 1 4. 2 4. 1	6.7	6. 9 6. 3 7. 6
	X. DISEASES OF THE GENITO-URINARY SYSTEM	T M F	12.6 15.2 9.9	9.6 10.2 9.0	12.8 14.5 11.2	15. 9 19. 4 12. 2	14.4 19.6 9.1	14.7 16.1 13.4	11. 1 13. 5 8. 7	11.4 14.9 7.9	12.5 18.4 6.4	9.6 11.7 7.4	13.1 18.4 7.8	6. 7 12. 2	27. 6 31. 6 22. 7
A108	Acute nephritis	T M	0.3	0.4 0.4 0.4	0.9 - 1.9	0.1	0.5	0.4 0.3 0.5	0, 2 0, 3 0, 1	0. 4 0. 4 0. 4	0. 4 0. 4 0. 4	0.1	0.3 0.2 0.4	-	-
A109	Chronic, other and unspecified nephritis	F T M	0.3 4.8 5.0	2.0	5. 5 5. 4	6. 5 5. 8 7. 2	4. 4 7. 1 1. 6	6. 8 6. 1 7. 6	4. 1 4. 6 3. 6	3. 8 4. 5 3. 1	3. 2 4. 1 2. 3	3. 4 4. 0 2. 7	3. 3 4. 3 2. 3	6. 7 12. 2	3. 4 - 7. 6
A110	Infections of kidney	F T M	4. 5 3. 1 3. 3	2. 0 3. 8 4. 3	5, 6 1, 8	4. 4 4. 7	4. 2 5. 1	2.6	2. 7 2. 4	3. 4 3. 7	4. 2 5. 7	2.8 2.9 2.6	5. 0 5. 9 4. 2	-	13.8
A111	Calculi of urinary system	F T M F	3. 0 0. 5 0. 6 0. 5	3. 3 0. 8 - 1. 6	3, 7 - - -	4. 0 0. 8 1, 3 0. 3	3. 2 0. 5 0. 3 0. 6	2. 5 0. 4 0. 6 0. 3	3. 0 0. 7 0. 7 0. 7	3. 1 0. 4 0. 6 0. 2	2.6 0.5 0.8 0.2	0. 4 0. 3 0. 5	0.5 0.6 0.4	-	7.6
A112	Hyperplasia of prostate	M	4.0	2.0	5.4	4.2	4,8	3.6	3.8	3.1	5.9	3.6	5.6	-	12.7
A113	Diseases of breast	T M F	- - -	-	-	- - -	-	-	-	- - -	- - -	- - -	-	- - -	-

TABLE 15

DEATH RATES PER 100,000 POPULATION AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST OF 150 CAUSES, CANADA, 1967 (Continued)

Int'l List No.	Cause of death (Intermediate list) (7th Rev.)	Sex	Canada	Nfld.	P. E. I.	N.S.	N. B.	Que.	Ont.	Man.	Sask.	Alta.	В. С.	Yukon	NWT
A114	Other diseases of genito- urinary system	T M F	1.8 2.1 1.6	1.6 1.6 1.6	1.8 3.6	2. 0 3. 2 0. 8	2. 4 2. 2 2. 6	2. 6 2. 8 2. 5	1.5 1.8 1.3	1.8 2.5 1.0	1.1 1.4 0.9	1. 1 0. 8 1. 5	1.2 1.8 0.5	-	3. 4 - 7. 6
	XI. DELIVERIES AND COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM 1		23.7	23.4	-	21.0	24.3	32, 5	22.7	17.5	22. 2	16.3	15.2	-	-
A115	Sepsis of pregnancy, child-birth and the puerperium l	F	3.8	-	-	-	-	<b>5</b> . 9	6.3	-	-	-	-	-	-
A116	Toxaemias of pregnancy and the puerperium 1	F	3.5	-	-	-	8.1	4.9	2.4	5.8	5.6	6.5	-	-	-
A117	Haemorrhage of pregnancy and childbirth <sup>1</sup>	F	4. 9	7, 8	-	-	-	5.9	3.9	-	5.6	6.5	9.1	-	-
A118	Abortion without mention of sepsis or toxaemia <sup>1</sup>	F	1.3	-	-	-	8.1	-	3.1	-	-	-	-	-	-
A119	Abortion with sepsis1	F	0.8	-	-	-	-	1.0	0.8	-	-	-	3.0	-	-
A120	Other complications of pregnancy, childbirth and the puerperium l	F	9.4	15.6	~	21.0	8. 1	14.8	6.3	11.6	11.1	3,3	3.0	-	-
	XII, XIII. DISEASES OF THE SKIN AND MUSCULO- SKELETAL SYSTEM	T M F	3. 1 2. 8 3. 4	0.8 0.8 0.8	0.9 1.8	3.8 3.4 4.3	4.0 3.2 4.9	3.6 3.1 4.1	3. 2 3. 0 3. 4	3. 7 2. 7 4. 8	1.9 1.8 1.9	2. 8 2. 6 2. 9	2. 1 1. 9 2. 3	6. 7 12. 2	
A121	Infections of skin and subcutaneous tissue	T M F	0. 2 0. 3 0. 2	0.2	-	0.4 0.3 0.5	0.3	0.1 0.1 0.1	0.3 0.4 0.2	0.3 0.4 0.2	-	0.3 0.3 0.4	0.3 0.4 0.1	-	
A122	Arthritis and spondylitis	T M F	1.3 1.0 1.6	-	-	1, 2 1, 3 1, 1	1.6 1.0 2.3	1. 7 1. 3 2. 2	1. 2 1. 0 1. 5	1.5 0.6 2.3	0.5 0.2 0.9	1. 2 1. 3 1. 1	1.1	-	-
A123	Muscular rheumatism and rheumatism unspecified	T	* * * *	-	- -	-	-	* - *			-	0.1	0.1 0.1	-	-
A124	Osteomyelitis and periostitis	T M F	0. l 0. l	-	-	-	0.2 0.3	0. 1 0. 1	0.1 0.1 *	0.2	0.1 0.2	0. 1	- - -	-	-
A125	Ankylosis and acquired musculoskeletal deformities	T M	0. 1 0. 1 0. 1	-	- - -	-		0.1	0.1 0.1	0.4	0.1	-	- - -	- - -	-
A126	All other diseases of skin and musculoskeletal system	F T M F	0. 1 1. 4 1. 3 1. 5	0.6 0.8 0.4	0.9 1.8	2. 2 1. 8 2. 7	1.9 1.9 1.9	0.1 1.5 1.5 1.6	0.1 1.5 1.4 1.6	0. 2 1. 6 1. 4 1. 7	0, 2 1, 1 1, 4 0, 9	1. 0 0. 9 1. 1	0.7 0.6 0.7	6.7	-
	XIV. CONGENITAL MALFORMATIONS	T M F	10. 4 10. 9 9. 9	14.6 13.3 16.0	16.5 14.5 18.6	11. 2 13. 7 8. 8	9.0 10.0 8.1	12.8 13.3 12.3	9. 4 9. 6 9. 2	8. 6 10. 1 7. 1	8. 7 9. 8 7. 5	10.0 11.6 8.3	7. 8 7. 7 7. 9		13.8 12.7 15.2
A127	Spina bifida and meningocele	T M F	1.3 1.1 1.4	2. 2 0. 8 3. 7	1.8	0.9 1.1 0.8	1.6 1.0 2.3	2. 1 1. 8 2. 3	1. 2 1. 1 1. 3	0.7	0. 2 0. 4	0.5 0.7 0.3	0.6 0.8 0.3		-
a.	Without hydrocephalus	T M F	0.5 0.4 0.6	1.2 0.4 2.0	0.9 - 1.9	0.3	0.5 0.3 0.6	1.0 0.8 1.2	0.4 0.3 0.4	0.3	-	0.2	0.3 0.4 0.2	-	-
b.	With hydrocephalus	T M F	0. 8 0. 7 0. 8	1.0 0.4 1.6	0. 9 - 1. 9	0.7 0.5 0.8	1. 1 0. 6 1. 6	1. 1 1. 0 1. 2	0. 8 0. 7 0. 9	0. 4	0.2	0.3 0.3 0.3	0.3 0.4 0.1	-	-
A128	Congenital malformations of circulatory system	T M F	4.7 5.1 4.4	5. 8 5. 9 5. 1	8. 3 9. 1 7. 4	5. 4 5. 8 5. 0	3.1 4.5 1.6	5. 7 6. 6 4. 8	4.3 4.3 4.2	3.8 4.5 3.1	4.5 4.5 4.5	5.6 6.5 4.6	3. 4 2. 6 4. 3	-	-
A129	All other congenital malformations	T M F	4. 4 4. 7 4. 1	6. 6 6. 7 6. 5	6. 4 5. 4 7. 4	4. 9 6. 8 2. 9	4. 4 4. 5 4. 2	5. 0 4. 9 5. 1	4. 0 4. 2 3. 7	4. 0 5. 6 2. 5	4. 0 4. 9 3. 0	4. 0	3. 8 4. 3 3. 3	-	13.8 12.7 15.2
	XV. CERTAIN DISEASES OF EARLY INFANCY	T M F	23. 2 26. 8 19. 6	44. 4 50. 5 38. 0	26. 6 32. 6 20. 4	25. 4 29. 2 21. 5	30.8 35.3 26.3	22. 7 26. 1 19. 2	20.9 24.6 17.2	19: 9 23: 0 16: 9	28. 2 32. 3 23. 9	25. 1 27. 4 22. 7	20.5 23.4 17.5	40.0 24.4 58.8	103.4 120.3 83.3
A130	Birth injuries	T M	3.8 4.5	5. 2	5. 5 9. 1	2. 9	4.8	4. 4 5. 4	3.5	3.8	3.9	2. 9	2. 9	6.7 12.2	13.8
A131	Postnatal asphyxia and atelectasis	F T M	3. 1 4. 4 5. 1	3. 7 4. 2 4. 3	1.9 2.8 5.4	3.7 4.4 5.5	5. 2 2. 7 2. 9	3. 4 4. 7 5. 4	2. 7 4. 5 5. 1	2. 9 2. 8 3. 1	3. 8 3. 7 4. 5	2. 7 5. 1 5. 8	2. 3 4. 3 5. 2	6.7	7. 6 17. 2 12. 7
A132	Infections of the newborn	F T M	3. 7 1. 5 1. 6	4. 1 3. 8 5. 1	0.9	3. 2 1. 2 1. 1	2. 6 2. 7 3. 5	3.9 1.4 1.4	3.8 1.5 1.7	2. 5 1. 5 1. 4	2.8	4. 4 0. 7 0. 9	3. 4 1. 3 1. 4	6.7	22. 7 20. 7 25. 3
A133	Haemolytic disease of newborn	F M F T M F	1.4 0.7 0.8	2.5 1.4 1.6	1.9 - -	1.3 0.5 0.8	1.9 0.6 1.0	1.3	1.3 0.6 0.7	1.5 0.2 0.4	2. 8 0. 9 0. 6	0. 4 0. 6 0. 7	1. 2 0. 4 0. 5	14.7	15. 2
A134	All other defined diseases of early infancy		0.6 0.6 0.7 0.5	1. 2 0. 2 - 0. 4	0.9	0.3 0.7 1.1 0.3	0.3 0.6 1.3	0. 9 0. 7 0. 8 0. 7	0.6 0.6 0.8 0.3	0.7 0.6 0.8	1.3 0.7 1.0 0.4	0.5 0.5 0.3 0.8	0.3 0.3 0.1 0.4	-	3. 4 6. 3

TABLE 15
DEATH RATES PER 100,000 POPULATION AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST OF 150 CAUSES, CANADA, 1967 (Continued)

Int'l List No.	Cause of death (Intermediate list) (7th Rev.)	Sex	Canada	Nfld.	P. E. I.	N.S.	N.B.	Que.	Ont,	Man.	Sask.	Alta.	В. С.	Yukon	NWT
A135	Ill-defined diseases peculiar to early infancy, and immaturity unqualified	T M F	12. 2 14. 1 10. 3	29. 6 32. 9 26. 2	16.5 18.1 14.9	15.7 18.7 12.8	19. 2 22. 2 16. 2	10.5 11.9 9.1	10.3 12.0 8.5	10.9 12.6 9.2	17. 0 21. 0 12. 8	15. 3 16. 7 13. 8	11. 2 12. 7 9. 8	20.0 12.2 29.4	48.3 57.0 37.9
	XVI. SYMPTOMS, SENILITY, AND ILL- DEFINED CONDITIONS	T M F	4. 8 5. 0 4. 6	20.6 19.6 21.7	7.3 7.2 7.4	4. 1 3. 7 4. 5	4.7 4.8 4.5	3. 3 3. 1 3. 4	2.8 2.5 3.0	4.8 4.1 5.4	5. 4 5. 1 5. 8	18.6 24.2 12.7	1.8 1.3 2.4	-	17. 2 19. 0 15. 2
A136	Senility without mention of psychosis	T M F	1.6 1.2 2.0	10.0 9.0 11.0	-	2.0 1.6 2.4	1.5 1.0 1.9	1.0 0.9 1.2	1.0 0.6 1.5	2.3 1.7 2.9	3.1 2.2 4.1	2.6	1.1	-	3.4
A137	Ill-defined and unknown causes	T M F	3. 2 3. 8 2. 6	10.6 10.6 10.6	7.3 7.2 7.4	2. 1 2. 1 2. 1	3. 2 3. 9 2. 6	2. 2 2. 3 2. 2	1.7	2. 5 2. 5 2. 5 2. 5	2. 3 2. 9 1. 7	2. 9 16. 0 21. 9 9. 8	1.7 0.8 0.8 0.7	-	13.8 12.7 15.2
	EXVII. ACCIDENTS, POIS- ONINGS AND VIOLENCE (Classification according to external cause)	T M F	67. 4 95. 2 39. 4	55. 2 79. 5 29. 9	89.0 121.4 55.8	79.3 117.4 40.6	71.6 104.7 38.2	60. 8 88. 1 33. 6	64.9 89.4 40.3	70.1 97.0 43.0	74.0 102.9 43.8	69. 1 100. 4 36. 5	85.3 117.3 52.4	146.7 195.1 88.2	148.3 202.5 83.3
AE138	Motor vehicle accidents	T M F	27. 1 39. 0 15. 1	19.6 26.6 12.3	31. 2 38. 0 24. 2	33. 8 51. 5 15. 9	36.1 51.4 20.7	28.7 41.8 15.8	24.0 34.8 13.2	22. 1 31. 4 12. 7	31. 3 43. 5 18. 6	29. 1 43. 2 14. 4	28, 3 38, 2 18, 1	40.0 61.0 14.7	17. 2 25. 3 7. 6
a.	Traffic accidents (810-825)	T M F	26. 5 38. 1 14. 9	19. 2 26. 2 11. 9	31, 2 38, 0 24, 2	33.6 51.0 15.9	35.8 50.7 20.7	28. 4 41. 3 15. 7	23.5 34.0 13.0	21. 4 30. 0 12. 7	30.9 42.7 18.6	28. 1 41. 8 13. 9	27. 2 36. 5 17. 6	40.0 61.0 14.7	10.3 12.7 7.6
b.	Non-traffic accidents	T M F	0.5 0.9 0.2	0. 4 0. 4 0. 4		0.3 0.5	0.3 0.6	0.4 0.6 0.1	0.5 0.8 0.2	0.7 1.4	0.4	0.9 1.4 0.4	1.1 1.7 0.5	- - -	6. 9 12. 7
AE139	Other transport accidents	T M F	3. 0 5. 5 0. 4	6. 0 11. 4 0. 4	11.9 23.6	8, 1 15, 8 0, 3	3.9 6.4 1.3	1.6 2.8 0.4	2.5 4.9 0.2	4.7 8.7 0.6	2.3 4.3 0.2	2, 0 3, 6 0, 4	4. 9 8. 4 1. 2	-	31.0 57.0
a.	Drowning involving small boats (850)	T M F	1.3 2.5 0.2	4. 0 7. 4 0. 4	2.8	3. 6 6. 8 0. 3	1.3 2.2 0.3	0.6 1.2 0.1	1.4 2.7 0.1	1.6	0.8	0.3 0.4 0.3	2. 4 3. 9 0. 9	-	10.3
b.	Drowning involving other watercraft (851)	T M F	0.2	0.4	9. 2 18. 1	2, 9 5, 8	-	1)t	0.1	0.1	-	-	0.4	-	-
с.	Other transport	T M F	1.4 2.5 0.2	1.6	-	1, 6	2. 6 4. 2 1. 0	1.0 1.6 0.3	1.1 2.1 0.1	3. 0 5. 4 0. 6	1.5 2.7 0.2	1.7 3.2 0.1	2. 1 3. 8 0. 3	-	20.7
AE140	Accidental poisoning	T M F	2. 4 3. 1 1. 6	0.6 0.4 0.8	1.8	1.7 2.6 0.8	1.8 2.6 1.0	1.3 1.8 0.9	2.3	2.1	2. 0 3. 1 0. 9	2.8 4.6 1.0	6. 7 8. 7 4. 7	-	3.4
	Accidental falls	M F	8. 4 8. 4 8. 3	7. 0 6. 3 7. 8	10.1 7.2 13.0	8. 7 6. 6 10. 9	5.6 5.5 5.8 1.1	6.5 7.3 5.6 1.0	9.6 9.3 9.9 1.2	9. 1 8. 7 9. 6 1. 6	8.9 9.8 7.9 1.8	8. 9 9. 4 8. 3 1. 4	9.5 9.6 9.3 1.6		3. 4 6. 3 - 3. 4
	Accident caused by machinery	M F	1. 2 2. 3 0. 2	1.0 1.6 0.4 4.2	2.8 5.4 - 4.6	1. 2 2. 4 - 5. 7	2. 2	1.8 0.1 2.6	2.3	2. 7 0. 4 5. 3	3.3 0.2 3,5	2. 6 0. 1 3. 6	3. 0 0. 1 5. 3	6.7	6.3
	Accident caused by fire and explosion of combustible material Accident caused by hot	T M F T	3.6 4.3 2.8 0.2 0.2	5.9	5. 4	5. 8 5. 6 0. 3	6.7 3.2 0.5	3. 0 2. 1 0. 2 0. 2	3. 6 2. 9 0. 1 0. 2	6. 4 4. 2 0. 3 0. 2	4. 7 2. 3 0. 1 0. 2	4. 7 2. 5 0. 2 0. 3	7. 1 3. 5 0. 3 0. 4	12.2	19.0
AE145	substance, corrosive liquid, steam, and radiation Accident caused by firearm		0. 1 0. 8 1. 4	0, 8 1, 2 1, 6		0.5 0.3 0.5	1.3 2.6	0.1 0.7 1.3	0.1 0.5 0.9	0.4 1.5 2.7	1.6	0.1 0.9 1.8	0. 2 0. 8 1. 5	20.0 36.6	10.3 6.3 15.2
AE146	Accidental drowning	F T M F	0.1 4.3 7.1 1.5	0.8 7.6 12.9 2.0	9, 2 16, 3 1, 9	5.5 9.2 1.9	4. 4 7. 1 1. 6	0. 1 5. 2 8. 8 1. 6	* 3. 2 5. 3 1. 2	0. 2 4. 2 6. 2 2. 1	0.6 2.4 3.3 1.5	3. 8 6. 3 1. 2	0.1 5.1 8.5 1.7	13.3 24.4	20.7 31.6 7.6
AE147	' All other accidental causes	T M F	6.0	5. 6 9. 8 1. 2	7.3	5. 3 8. 4 2. 1	6. 1 9. 3 2. 9	5. 1 7. 7 2. 5	5. 9 8. 4 3. 5	7.7 10.5 4.8	9.7 13.3 6.0	4. 6 6. 3 2. 9	7.0 10.7 3.1	26. 7 24. 4 29. 4	41.4 31.6 53.0
	All accidental causes	T M F	56.8 80.1 33.3	53. 2 76. 3 29. 0	78. 9 112. 3 44. 6	70.5 102.7 38.0	65.8 94.7 36.6	52. 8 76. 6 29. 1	52. 7 72. 4 33. 0	58. 5 79. 4 37. 3	63.6 87.8 38.2	57. 4 82. 9 30. 9	69.5 96.3 42.0	106.7 158.5 44.1	141.4 189.9 83.3
AE148	Suicide	T M F	9. 0 13. 2 4. 8	2. 0 3. 1 0. 8	9. 2 9. 1 9. 3	7.5 13.1 1.9	4.8 8.0 1.6	6.7 10.0 3.5	10.6 15.1 6.1	10.5 16.5 4.4	8.6 12.7 4.3	9. 2 14. 5 3. 7	13.3 17.9 8.5	13.3	6.9
	Homicide and injury purposely inflicted by other persons (not in war)	T M F	1.5		0.9	1.1 1.3 0.8 0.1	1.0	1.3 1.5 1.1	1.6 1.9 1.3 0.1	1.0 0.8 1.3 0.1	1 9 2.5 1.3	2. 5 3. 0 1. 9	2. 3 2. 8 1. 8 0. 1	26. 7 12. 2 44. 1	-
AE150	Injury resulting from operations of war	M F	0.1	-	-	0.3	-	-	0.1	0.2	-	-	0.2	-	-

TABLE 15

DEATH RATES PER 100,000 POPULATION AT ALL AGES ACCORDING TO THE INTERNATIONAL INTERMEDIATE LIST OF 150 CAUSES, CANADA, 1967 (Concluded)

Int'l List No.	Cause of death (Intermediate list) (7th Rev.)	Sex	Canada	Nfld.	P. E. I.	N.S.	N.B.	Que.	Ont,	Man.	Sask.	Alta.	В. С.	Yukon	NWT
	NXVII. ACCIDENTS, POIS- ONINGS AND VIOLENCE (Classification according to nature of injury)	T M F	67. 4 95. 2 39. 4	55. 2 79. 5 29. 9	89.0 121.4 55.8	79.3 117.4 40.6	71.6 104.7 38.2	60.8 88.1 33.6	64. 9 89. 4 40. 3	70. 1 97. 0 43. 0	74.0 102.9 43.8	69. 1 100. 4 36. 5	85.3 117.3 52.4	146.7 195.1 88.2	148.3 202.5 83.3
AN138	Fracture of skull	T	14.7	7.8	9.2	15.3	18.1	18.3	13.0	10.3	11, 4 18, 4	11.2	17.8 26.3	13.3 24.4	17.2 31.6
AN139	Fracture of spine and trunk	F T M F	7.3 3.4 4.5 2.3	4. 1 4. 4 5. 9 2. 9	7. 4 7. 3 7. 2 7. 4	6.9 4.8 6.6 2.9	10.7 3.4 4.8 1.9	9. 2 2. 8 3. 8 1. 7	6.5 3.0 3.8 2.1	5. 4 5. 4 6. 6 4. 2	4. 1 4. 5 6. 5 2. 3	4. 0 3. 5 4. 6 2. 3	9. 1 4. 1 5. 4 2. 7	6.7	3.4 - 7.6
AN140	Fracture of limbs	T M F	5. 6 4. 5 6. 8	4.8 2.0 7.8	11.0 7.2 14.9	7.3 4.5	3.4 1.9 4.9	4. 6 4. 4 4. 8	6.3 4.8	5. 9 4. 3	6. 1 4. 9	6.8	5. 1 3. 4	-	-
AN141	Dislocation without fracture	T M F	0. 1 0. 1	-	-	0.3 0.3 0.3	-	-	7.7 0.1 0.1	7.5 0.1 0.2	7.3 0.3 0.2	7.5	6.9 0.2 0.3	-	-
AN142	Sprains and strains of joints and adjacent muscles	T M F	*	-	- - -		-	-	*		0.4	0. 1 0. 1	-	-	-
AN143	Head injury (excluding fracture)	T M	6.8	3. 4 5. 5	5. 5 5. 4	8.5 13.4	7.9	5. 5 8. 3	6.2	7.7	10.0	10.3	8.3 13.7	60.0 61.0	6. 9 12. 7
AN144	Internal injury of chest, abdomen, and pelvis	F T M F	3. 1 12. 7 19. 6	1.2 9.4 14.5 4.1	5.6 11.9 21.7	3.5 13.6 23.4	4.9 15.6 25.7	2. 6 9. 9 15. 6	3.1 12.4 19.4	2. 7 13. 1 20. 5	4. 9 18. 9 27. 2	3.7 15.6 24.6	2.8 15.5 21.7	58. 8 26. <b>7</b> 48. 8	31.0 44.3
AN145	Laceration and open wounds	T M F	5.7 0.9 1.5	0. 4	1.9 1.8 3.6	3.7 0.9 1.6	5. 5 1. 6 2. 6	4.3 0.7 1.2	5. 5 1. 0 1. 7	5.6 0.9 1.4	10. 2 0. 9 1. 6	6.3 1.1 1.8	9. 1 0. 9 1. 4	-	15, 2
AN146	Superficial injury, contusion and crushing with	T	0.3 0.1 0.1	-	-	0.3 0.1 0.3	0.6	0.3 *	0. 4 0. 1 0. 1	0.4	0. 2 0. 2 0. 4	0.4	0. 4 0. 2 0. 1	-	-
AN147	intact skin surface Effects of foreign body entering through orifice	F T M	0. 1 2. 1 2. 6	2.6	2. 8 3. 6	1.7 2.4	1.6	* 1.6 1.8	* 2.6 3.0	0. 4 3. 0 4. 1	3. 1 3. 1	0.3 1.3 2.1	0. 2 1. 5 2. 1	6.7	20.7
AN148	Burns	F T M	1.7 3.1 3.7	0. 4 3. 6 4. 3	1. 9 3. 7 1. 8	1. 1 4. 6 4. 5	1.0 3.9 6.1	1.3 2.5 3.1	2, 2 3, 0 3, 2	1.9 3.6 4.8	3. 2 2. 8 3. 7	0.5 3.5 4.6	0. 9 3. 9 5. 2	14.7	37.9 10.3 19.0
AN149	Effects of poisons	F T M	2. 5 6. 2 7. 5	2. 9 2. 6 3. 5	5. 6 3. 7 7. 2	4. 8 5. 0 7. 1	1.6 4.2 5.8	1.9 4.1 4.9	2. 8 6. 5 7. 4	2. 5 7. 2 7. 9	1.9 5.7 7.8	2. 3 7. 0 9. 5	2, 5 13, 1 15, 7	6. 7 12. 2	3.4 6.3
AN150	All other and unspecified effects of external causes	F T M F	4.9 11.6 18.4 4.8	1.6 16.2 27.0 4.9	32.1 52.5 11.2	2. 9 17. 2 30. 0 4. 3	2.6 11.9 19.3 4.5	3.3 10.8 17.5 4.1	5.6 10.8 17.2 4.3	6.5 12.7 19.4 5.8	3.6 10.0 14.3 5.6	4. 5 8. 4 12. 0 4. 6	10.4 14.8 22.0 7.4	26. 7 36. 6 14. 7	55. 2 82. 3 22. 7

<sup>\*</sup> Less than 0.1 per 100,000 population

Rate per 100,000 population 1958 Number of deaths Rate per 100,000 population 6261 Number of deaths TABLE 16 CERTAIN CAUSES OF DEATH BY NUMBERS AND RATES FOR EACH YEAR OF THE LAST DECENNIAL PERIOD - 1967 Rate per 100,000 population 1960 Number of deaths Rate per 100,000 population 1961 Number of deaths Rate per 100,000 population 1962 Number of deaths 205 114 20 Rate per 100,000 population 2,890 Number of deaths Rate per 100,000 population 1964 403 26 12 52 995 Number of deaths 206 2111 Rate per 100,000 population 1965 3,001 1,625 308 Number of deaths 10 72 10 Rate per 100,000 population 1966 Number of deaths 199 Rate per 100,000 population 1967 Number of deaths Pulmonary tuberculosis Typhoid and paratyphoid Diseases of the arteries Poliomyelitis and infec-Suicides Cerebral haemorrhage Diarrhoea and enteritis Pneumonia (all forms) Diseases of the heart (suicide excepted) tious encephalitis Cause of death Diabetes mellitus Puerperal causes Whooping cough Scarlet fever Appendicitis Influenza Cancer

### DEATHS OF INDIANS, BY CAUSE AND SEX, BY AGE, ALBERTA, 1967

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LIST NO.		CAUSE OF DEATH INTERMEDIATE LIST (SEVENTH REVISION)	TO	TAL	-1 YR	1	2	3	4	5	-	15 - 19	-	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 - 79	- 1	85&	NS
		1. INFECTIVE AND PARASITIC DISEASES.	:																								
		TUBERCULOSIS (A1-A5).																									
A	1	RESPIRATORY.																									
	Α	ACTIVE	M	7	1	_	_	_	_		_	_	_	_	_	_	_	1		_	1	_	2	2	_	_	_
			F	11	1	-	-	-	_	-	-	-	-	-	1	1	-	1	-	_	1	_	2	3	-	1	-
	В	INACTIVE (002.2, 008.2)	F T	1. 1	-	-	-	-	-	-	-	-	_	-	-	-	1	-	-	-	-	-	-	-	-	-	=
		TOTAL (A1)		7	1	_	_	_	_	_	_	_	_	_	_	_	_	1	_		1	_	2	2	_	_	_
			F	5	1	_	_	-	-	_	-	-	-	-	1	1	1	1	-	-	1	-	- 2	1	-	1	-
A	2	MENINGES AND CENTRAL	м	_	_	_		_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_		_
	_	NERVOUS SYSTEM	F	-	_	-	_	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-
	2	INTESTINE, PERITONEUM AND	М	_	_	_		_	_	_		_		_													
A	,	MESENTERY	F	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	_	_	-	-	_	-	-	-	_
			T	-	-	-	-	-	_	-	-	_	-	-	-	-	-	-	-	-	_	-	-	-	-		-
A	4	BONE AND JOINT	F	_	_	_	-	-	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	-
			T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	~~	-	-	-
A	5	OTHER FORMS	. M	-	_	_	_	_	_	_	_	_	_	-	_	_	-	_	_	_	-	_	_	_	_	-	_
			T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TOTAL (A1-A5)	F	7 5 12	1 - 1	-	-	-	-	-	-	-	-	-	1	1	1	1	Ξ	-	1 - 1	=	2 - 2	2 1 3	-	1	=
		SYPHILIS (A6-A10).													•	•	•	•			•		-				
	6	CONGENITAL	. м	_	_	_	_	_	_	_	_	_	_	_	_					_	_	_					
_	٠	CONTRACT ************************************	F	-	-	Ξ	_	=	=	=	-	-	-	-	-	_	-	-	-	_	_	-	=	-	-	-	-
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A	7	EARLY	F	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	-	_	_	_	_	-	_
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A	8	TABES DORSALIS	F	_	_	-	_	_	_	_	-	-	_	_	_	-	-	-	_	_	_	_	_	_	_	-	-
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A	9	GENERAL PARESIS	, M	-	_	_	_	_	_	_	_	-	-	-	-	_	_	_	-	_	-	-	_	-	-	-	-
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A	10	OTHERS	H F	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
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			F	1	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	1	_	_	_	_	-
A	11	GONDCOCCAL INFECTION	. м	-	-	_	_	_	_	_	_	+	_	_	_	_	_	_	_	_	-	_	_	_	_	-	_
			F	_	_	_	-	-	-	_	-	-	-	-	-	-	-	-	-	_	-	_	-	-	-	-	-
A	12	TYPHOID		_	_	_	_	_	-	101	_	_	_	_	_	_	-	_	_	_	_	_	_				
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	12	PARATYPHOID AND OTHER			_	_	_	_	_	_	_	_	-	_	_	-	-	-	Ī	_	-	-	-	-		-	-
^	13	SALMONELLA	F	-	-	-	_	-	-	_	-	_	_	-	-	_	-	_	-	-	_	_	_	_	_	-	_
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A	14	CHOLERA	, M	_	_	_	_	-	_	_	_	_	-	-	_	_	-	-	_	_	_	_	_	-	-	-	-
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A	15	BRUCELLOSIS	. M	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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A	16	DYSENTERY	. м	-	-	-	-	-	-	_	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	_
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A	17	SCARLET FEVER	М	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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A	18	STREPTOCOCCAL SORE THROAT		_	_	-	-	-	_	_	-	_	-	-	-	_	-	-	_	-	-	-	-	-	-	-	-
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A	1.0	ERYSIPELAS				_	-		-							_		_		_	_	-	-			_	
А	14	LNTJIFELMJ 00000000000000000	F	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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TABLE 17
DEATHS OF INDIANS, BY CAUSE AND SEX, BY AGE, ALBERTA, 1967

LIS	т.	A CAUSE OF DEATH														,	100									
NO	}•	INTERMEDIATE LIST A (SEVENTH REVISION)	TOTAL	-1 VR	1	2	3	4	5	10 - 14	-	20	25	30	35 - 39	40	-	50 - 54	55	-	65	70	75		858	NS
A	20	O SEPTICAEMIA AND PYAEMIA	M -	_	-	_	-	-	-	-	-	~	_	_	_	_	_	_	-	-	-	74	79	84	_	
	31	1 DIDUTUED : A	T 1		-	-	-	-	-	-	-	_	_	~	_	1	_	_	_	_	~	_	_	_	-	-
A	21	1 DIPHTHERIA	. M -	-	-	_	_	_	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	_
A	22	2 WHOOPING COUGH	т –	-	_	_	~	-	-	-	-	-	-	-	-	-	-	-	-	_	-	_	_	-	-	_
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A	23	3 MENINGOCOCCAL INFECTIONS			_	_	_	_	_	_	_	_	-	-	-	-	-	~	-	-	-	-	-	-	-	-
			F 1		_	-	-	-	_	1	_	-	_	_	-	-	_	_	_	_	_	_	_	_	_	-
A	24	4 PLAGUE	M -	-	-	-	-	_	-	-	_	_	_	_	_	_	_	~	_	_	_		_	_	-	-
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A	25	5 LEPROSY	M -	-	-	-	_	-	-	-	-	-	-	-	-	-	-	_	_	-	_	_	_	_	~	-
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^	26	S TETANUS	M -	-	_	_	-	_	_	_	_	_	_	-	-	_	-	_	-	-	_	-	-	-	~	-
	27	7 ANTHRAX	т -	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	_	-	-
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A	28	ACUTE POLIOMYELITIS	м –	_	_	_	_	_	_	_	_	_	_	_	-	-	-	-	-	-	-	-	-	-	-	-
			F ~	-	_	_	-	_	_	_	_	_	-	-	-	-	-	_	_	_	-	-	_	_	-	_
A	29	ACUTE ENCEPHALITIS	M 1	-	-	-	-	-	1		-	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
			F -	-	_	-	_	_	1	_	-	-	_	_	_	_	_	_	-	_	-	_	_	_	_	-
A	30	LATE EFFECTS OF POLIO MYELITIS AND ENCEPHALITIS	M - F -	-	_	Ξ	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-
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A	31	SMALLPOX	M -		_	_	~	_	_	_	_	_	_	-	_	_	-	_	_	_	_	_	_	-	-	_
A	32	MEASLES	M 1	1	_	_	_	_	_	_	_	-	-	-	-	-	-	-	-	-	-	-	-	~	-	-
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A	33	YELLOW FEVER		-	-	-	-	_	<b></b>	_	-	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_
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A	34	INFECTIOUS HEPATITIS	M -	_	_	-	_	_	_	_	_	_	-	_ `	-	-	_	-	-	-	-	_	-	-	-	-
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A	35	RABIES	H -	_	-	_	-	_	_	_	_	_	_	_	_	-	_	-	-	_	_	_	_	_	-	_
A	36	TYPHUS AND DTHER RICKETT-	T -	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	-	-
		SIAL DISEASES	F -	-	_	_	_	_	-	_	_	_	-	_	_	-	_	-	-	_	-	_	-	_	-	-
A	37	MALARIA	м -	-	-	-	-	-	-	-	-	-	-	-	_	-	_	_	-	_	-	_	-	_	_	-
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A	38	SCHISTOSOMIASIS	M - F -	_	-	_	_	_	_	_	-	-	-	_	_	-	-	_	_	_	-	_	_	_	-	_
	30	HYDATID DISEASE	T -	-	-	-	-	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	-
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A	40	FILARIASIS	м –	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
			F -	_	_	_	_	-	-	-	_	-	-	_	_	-	-	_	_	-	_	-	-	-	-	-
A	41	ANKYLOSTOMIASIS	M - F -	_	-	_	-	_	_	_	_	_	-	_	_	-	-	_	-	-	-	-	-	-	_	-
			т -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A	42		F -	_	_	_	-	-	_	_	-	-	-	-	_	_	-	_	-	-	_	-	-	-	_	-
	42		т -	_	_	_	_	_	-	_	_	_	_	_	-	_	_	_	_	_	-	_	_	-	_	-
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## TABLE 17 DEATHS OF INDIANS, BY CAUSE AND SEX, BY AGE, ALBERTA, 1967

LIS			CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)	TOTAL	L -1 YI		ĭ	2	3	4	5 -	10	15 - 19	20 -	25 - 29	30	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60	65 - 69	70 - 74	75 - 79	80 - 84	85&	NS
		H.	NEOPLASMS.																									
		MALI	GNANT NEOPLASMS (A44-A5	9)																								
A	4	¥ BUCC	AL CAVITY AND PHARYNX	H -		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	-	-
A	4	5 0ESO	PHAGUS	H F	 1 -	-	-	-	<u>-</u>	-	- - -	-	-	- - -	-	-	-	- -	- -	-	-	-	-	-	-	- 1 1	-	-
A	41	STOM	ACH	F :	1 -	-	- - -	-	-	-	-	-	-	-	-	-	-	-	-	-	1 1	- - -	-	-	1 - 1	-	-	
A	4	7 INTE	STINE. EXCEPT RECTUM	F -	1 - 	-		- - -	-	-	-	-	- - -	- - -	-	- -	-	-	- -	-	-	- -	-	=	1 1	-	-	-
A	4	B RECT	UM	H F	- :	-		- - -	-	- -	-	-	-	-	- - -	-	=	=	-	-	-	-	-	-	-	-	-	-
A	4	9 LARY	NX	M -		-	-	-	-	-	-	-	_	_	_	-	-	_	-	-	-	-	-	-	-	_	-	-
	-		THE BRONCHISE AND ALMS	T :		-	-	-	-	-	-	-	-	-	-	-	-	~	-	-	-	-	-	-	-	-		-
A	יכ		HEA, BRONCHUS, AND LUNG SPECIFIED AS SECONDARY	F :	2 - 2 - 4 -	-	-	=	-	-	-	-	-	_	_	-	-	1	-	-	-	=	-	1	1	1	-	-
A	5	1 BREA	ST	F	- :	-	_	-	Ξ	-	_	-	_	_	_	-	-	-	-	-	-	-	-	-	-	-	-	-
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A			'IX UTERI		1 .	-	-	-	_	-	_	-	_	_	_	_	-	_	-	-	-	-	1	-	-	-	-	-
A			US, OTHER PARTS			-	-	-	-	-	-	-	-	-	-	_	~	-	-	-	-	-	-		-	-	-	
A			TATE		1 .	-	_		_	_	_	_	_	_		_	_	_	_	_	_	_	_	1	_	_		
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A	5	6 BONE	AND CONNECTIVE TISSUE	M ·	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	~	-	-	-
				T	_	_	-	_	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-
A	5	7 OTHE	ER AND UNSPECIFIED SITES	i.																								
			SESTIVE ORGANS	F	1 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1 1	-	-	-	1	-	-	-
			SPIRATORY ORGANS	F T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		C URI	INARY DRGANS		_	-	-	-	_	-	_	-	-	Ξ	_	_	-	-	-	-	-	-	-	-	-	-	-	-
		D BRA	AIN AND NERVOUS SYSTEM	T ·	- ·	_	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-
			193)	F	1	-	-	-	-	_	-	-	-	1	-	_	-	_	-	-	-	-	-	-	-	-	-	-
		E 0 <b>1</b> 1	1ER	F	1	- - -	-	-	-	-	-	-	-	- -	-	-	-	-	-	-	- - -	-	1 - 1	-	-	-		-
		TOTA	AL (A57)	F	4 1 5	<u>-</u> -	- - -	-	-	-	-	-	-	1 - 1	-	-	-	-	-	1 - 1	- 1 1	-	1 - 1	-	1 - 1	-	-	
A	5	8 LEUK	(AEMIA AND ALEUKAEMIA	F	-	- -	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-
A	5		PHATIC AND HAEMATOPOIETI	c																								
		# HOE	OGK IN S (201)	M F T	_	-	-	-	-	=	-	-	-	-	-	-	Ē	-	-	-	-	-	-	-	-	~	-	-
		в отн	HER	M F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TOTA	AL (A59)	T :	_	-	-	-	_	-	_	-	-	-	-	-	_	-	-	_	-	-	-		-	-	-	-
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		rot	ΓAL (Α44-Α59)	F T 1		- -	-	-	-	=	-	-	-	1 1	-	-		1	-	1 - 1	- 2 2	1	1 1 2	2 - 2	3 1 4	1 1 2	-	-
A	6	O BEN	IGN AND UNSPECIFIED		_	-	_	-	-	Ξ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

# TABLE 17 DEATHS OF INDIANS, BY CAUSE AND SEX, BY AGE, ALBERTA, 1967

LIS		CAUSE OF DEATH INTERMEDIATE LIST M (SEVENTH REVISION)	10	TAL	-1 YR	1	2	3	4	5 - 9	10 - 14	15	20 - 24	25	30 -	35 - 39	40 - 44	45	50 - 54	55 - 59	60	65	70	-		858	NS
		TOTAL (A44-A60)	H F	9	-	-	-	-	-	-	_	_	1	-	-	-	-	_	1	_	64	69	74	79	84	_	-
		III. IV. ALLERGIC. ENDOCRI	T	16	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1	2	1 E	2	5	4	2	-	-
		METABOLIC AND BLOOD DISEAS	SES																								
A	61	NON-TOXIC GOITRE	F	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A	62	THYROTOXICOSIS	M F T	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	_	_	-	-	-	-	-	-
A	63	DIABETES MELLITUS	F	2	_	_	-	-	~	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- - 1	- - 1	-
A	64	NUTRITIONAL DEFICIENCY	T M F	2	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 -	1 -	_
A	65	ANAEMIAS	Т	-	-	-	-	-		-		_	-	-	-	_	-	-	-	_	-	-	-	-	-	-	-
			F	1	_	_	-	-	-	-	-	-	-	-	_	-		-	-	-	-	-	-	-	-	1	-
A	66	OTHER	M F T	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	_	-	-	_	-	-
		TOTAL (A61-A66)	H F	- 3	-	_	-	-	-	=	-	-	-	-	-	-	_	-	-	_	-	_	-	-	-	_	-
		V. MENTAL. PSYCHONEUROTIC	T	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	i	2	_
		PERSONALITY DISORDERS.																									
٨	67	PSYCHOSES	M F T	1 1	-	-	- - -	-	-	-	-	-	-	-	-	- 1 1	-	-	-	_	-	-	-	-	-	-	-
a	68	PSYCHONEUROTIC AND PERSONA- LITY DISORDERS	F T	2 2	=	-	-	_	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
A	69	MENTAL DEFICIENCY		-	-	-	_	_	_	_	-	_	-	-	_	-	_	-	_	_	_	_	-	_	_	_	-
		TOTAL (A67-A69)	Т	_	-	_	-	-	_	_	-	_	_	_		_	-	_	-	_	_	_	-	-	_	_	-
			F	3	=	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-
		VI. DISEASES OF THE NERVOU SYSTEM AND SENSE ORGANS.																									
A	70	CEREBROVASCULAR LESIONS	F	8	1	-	-	_	_	_	-	-	_	-	_	2	_	-	1	_	1	2	2	4	1 -	1	_
	71	NON-MENINGOCOCCAL		18	1	_	-	-	-	-	_	-	_	-	_	~	-	-	-		-	~	-	-	-	-	-
		MENINGITIS	F	1	-	-	_	1	-	-	_	-	-	-	-	-	-	-	-	-	-	-	~	-	-	-	-
	72	MULTIPLE SCLEROSIS	F	_	-	-	-	-	=	_	=	_	-	-	-	-	-	-	-	-	_	-	-	-	_	-	=
A	73	EPILEPSY	H F T	1 - 1		-	-	- - -	-	-	1 - 1	-	-	-	-	-	-	-	=	-	-	-		-	-	-	-
A	74	INFLAMMATORY DISEASES OF THE EYE	M F T	-	-	-	-	-	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A	75	CATARACT		-	_	-	_	-	_	-		-	-	-	_	-	_	-	_	_	_	-	-	_	_	_	-
A	76	GLAUCOMA	Т.	_	_	_	_	_	-	_	_	_	_	_	_	_	-	-	_	-	_	_	-	_	_	_	_
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A	77	OTITIS MEDIA AND MASTOIDITIS	F T	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-	-	-	-
A	78	OTHER	F	1 3	_ 1	-	-	-	=	-	-	-	-	-		-	1	- 8	-	-	-	-	-	-	1	1	-
		TOTAL (A70-A78)	T H	12	1 -	-	-	-	-	-	1	-	-	-	-	- 2	1	-	-1	-	1	2	2	4	1	1 2	-
			F	12 24	2	-	-	1	-	-	1	-	-	-	-	2	1	-	î	-	1	3	3	4	2	3	-

DEATHS OF INDIANS, BY CAUSE AND SEX, BY AGE, ALBERTA, 1967

LIST A	CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)	TOTAL	-1 YR	1	2	3	4	5	10 - 14	15 - 19	20 -	25 - 29	30	35 - 39	40 - 44	45  49	50 - 54	55 - 59	60	65	70 - 74	75 - 79	8B - 84	85&	NS
	VII. DISEASES OF THE CIRCULATORY SYSTEM.																								
	HEART DISEASE (A79-A83).																								
A 79	RHEUMATIC FEVER	M - F - T -	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 80	CHRONIC RHEUMATIC	M 1 F 5	-	-	-		-	-	1	-	-	-	-	- - 1	-	- 1	- - 1	-	- 1	-	_	-	-	-	-
A 81	ARTERIOSCLEROTIC AND	T 6	-	-	-	-	-	-	1 _	-	-	-	-	î -	î 2	î -	1	- 2	i 3	- 3	1	7	- 2	- 2	-
A 9.5	DEGENERATIVE 2 OTHER	F 12 T 35		-	-	-	-	-	-	_	-	-	-	1	2	-	1	2	1 4	5	1	11	3	3 5	-
A 82	UINCK ********************	M - F 3 T 3		-	-	-	=	-	-		-	-	1	-	_	=	_	_	-	_	-	1	1	-	-
A 83	B HYPERTENSIVE	M 1 F - T 1	-	- -	-	-	- - -	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	1 1	-
	TOTAL (A79-A83)	M 25 F 20 T 45	-	-	-	-	-	-	1 - 1	-	-	-	- 1 1	- 2 2	2 1 3	1 1	1 1 2	2 - 2	3 2 5	3 2 5	1 - 1	7 5 12	2 2 4	3 3 6	-
A 84	HYPERTENSION	M 1 F 1 T 2	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 -	-	-	-	- 1 1	-	-	-
A 85	5 ARTERIAL DISEASES	M 1 F 3 T 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- I	-	-	-	-	1	-	1	-
A 86	OTHER	M 1 F - T 1	=	-	-	-	-	-	-	-	-	-	-	-	-	1 -	-	-	-	-	-	-	-	2 - -	-
	TOTAL (A79-A86)		-	-	-	-	-	-	1 -	:	=	=	-	_	2	1 1	1 2	3 -	3 2 5	3 2	1 -	7 7	2 2	4 4	-
	VIII. DISEASES OF THE RESPIRATORY SYSTEM.	1 72						Ī	1	-	•	-	1	2	3	2	3	3	5	5	1	14	4	8	-
A 87	ACUTE UPPER RESPIRATORY		1	_	_	_	_	_	_	_	_	_	_		-	_	_	_							
		F 1 7 2	1 2	_	_	_	_	_	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-
A 88	INFLUENZA	M 1	_	-	_	_	_	_	-	_	_	_	_	_	_		_					-			
	PNEUMONIA (A89-A91).	F - 1	-	-	-	-	_	-	-	Ξ	-	-	-	-	_	-	-	-	-	-	-	-	1	-	-
A RO																									
A 63		F 2 T 2	1	=	-	-	-	-	-	=	-	-	-	-	-	-	-	-	-	-	-	- -	-	1 1	-
A 90		M 7 F 11 T 18	2 9 11	-	2 - 2	-	-	1 - 1	-	-	=	-	-	-	-	-	-	-	-	-	1 -	1 -	1	1	-
A 91		M 5 F 7 T 12	3 5 8	-	-	-	-	-	_	-	-	-	-	_	-	-	-	-	-	-	-	- 1	1 -	1 -	-
	TOTAL (A89-A91)		5	_	-	_	-	_	_	-	-	-	-	-	-	-	-	-	1	-	-	1	1	1	-
		F 20 T 32	15	-	2 - 2		-	1 1	-	Ξ	-	-	-	-	-	-	Ξ	-	1	-		1 1 2	1 1 2	1 2 3	-
	BRONCHITIS (A92, A93).																								
A 92		M - F - T -	-	-	-	-	-	-	-	-	-	-	=	-	-	-	_	_	_	_	-	-	-	-	-
A 93		F 2	-	1 -	_ 1	-	-	-	-	ĩ	-	-	_	-		-	-	_	-	-	-	-	-	_	-
	TOTAL (A92. A93)	F 2	-	1 1 -	1 - 1	-	-	-	-	1 - 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 94	TONSILS AND ADENOIDS	T 3 M – F –	-	1	1 -	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F -	_	_	-	_	-	-	-	_	_	_	_	_	-	-	-	-	-	-	-	-	-	-	-
A 95	EMPYEMA AND LUNG ABSCESS	M -	-	-	-	-	-	-	-	-	~	-	-	_	***	-	_	_	_	-	-	_	_	_	_
		т -	-	-	-	-	-	-	-	-	-	-	-	_	-	-	_	_	_	-	_	_	_	-	-
A 96		F -	-	-	-	-	_	-	-	_	-	-	_	-	-	-	-	-	-	-	-	-	-	1	-
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								7.45																	99
		DEATI	HS OF	IND	IANS	BV			BLE :		· -														
LIST M	CAUSE OF DEATH INTERMEDIATE LIST (SEVENTH REVISION)		L -1	1	2	3	4	5	10			25 -	3E, .	ALBE 35		45		55	60	65	70	75		05.5	
A 97	OTHER	F	YR 1 - 2 -	-	-	-	-	9	14	19	24	29	34	39	44	49	54	59	64	69	74	79	84	85&	NS -
	70744 4407 4074		3 -	-	-	-	-	-	_	_	-	_	-	-	_	_	_	1	_	-	-	_	1	1	-
	IX. DISEASES OF THE DIGESTIVE SYSTEM.	F 2	7 6 5 16 2 22	1	1 3	-	-	1 1	-	l I	-	-	-	-	-	-	-	1	1	-	1 -	1 1 2	2 2	3 2 5	-
A 98	DISEASES OF THE TEETH	. м		_	_	_	_												Ī		•		•	,	
		F T		_	-	_	-	-	-	-	_	-	-	-	-	_	-	_	_	_	_	_	_	_	-
A 99	ULCER OF THE STOMACH	-	1 -	-	_	_	_	-	-	-	_	-	-	_	-	-	-	_	-	-	_	-	-	-	-
A 100	ULCER OF THE DUODENUM		1 -	-	-	_	_	-	_	-	-	-	-	-	-	-	-	-	-		-	-	ī -	1	-
A 101	. GASTRITIS AND DUODENITIS	T M	1 -	-	-	-	-	-	-	-	_	-	-	_	-	_	_	_	_	_	_	_	_	1	-
01	SASTATITS AND DOUBLATTIS	F	- - -	_	_	_	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	_	-
A 102	APPENDICITIS			-	-		-	-	-	-	-	-		_	_	~	_	_	_	_	_	_	_	_	_
		F T		-	_	-	_	-	-	-	_	_	_	-	_	_	_	_	_	-	_	_	_	_	-
A 103	3 INTESTINAL OBSTRUCTION AND HERNIA	F	2 - 1 - 3 -	-	-	-	-	-	-	-	_	-	-	-	=	1 ~	-	-	_	_	1	_	1 -	-	-
# 104	GASTRO-ENTERITIS AND	. м	3 2	_	-	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	1	_	_	-	_
	COLITIS	F T 1	8 7 1 9	1	_	_	-	-	-	_	-	_	_	-	_	-	-	_	-	-	1	-	_	-	-
A 105	CIRRHOSIS OF LIVER	F	 5 -	_	_	_	_	_	-	1	-	1	2	-	-	1	_	-	-	_	-	-	_	_	-
A 106	CHOLELITHIASIS AND CHOLECY-		5 – 1 –	_	_	_	_	_	_	1	_	1	2	_	_	1	_	_	_	_	_	-	_	_	_
	STITIS	F	2 -	_	_	-	-	_	-	-	_	1	-	-	-	-	-	1	-	-	-	1	-	-	_
A 107	OTHER	F	1 -	-	_	_	_	_	-	-	_	_	-	-	-	_	-	-	_	_	_	_	-	1 -	-
	TOTAL (A98-A107)				-	=	-	-	-	- 1 1	-	- 2 2	- 2 2	-	-	1 1 2	9 9	- 1 1	-	-	1 1 2	1 - 1	1 1 2	2 - 2	
	X. DISEASES OF THE GENITO- URINARY SYSTEM.	-																							
A 108	ACUTE NEPHRITIS	. M F T		-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-
<b>1</b> 109	CHRONIC AND OTHER NEPHRITIS	S M	1 -	-	_	-	_	-	-	_	_	_	-	-	-	_	-	_	-	1	-	-	-	Ξ	-
	THEFETTONE OF KIDNEY	Т	2 -	-	-	-	-	-	-	-	i	-	-	-	-	-	_	-	-	1 -	-	-	-	-	-
* 110	) INFECTIONS OF KIDNEY	F	2 -	-	-	-	_	-	_	_	-	_	-	-	-	-	-	1 2	-	_	-	1 2	-	-	-
A 111	CALCULI	. M		-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
a 112	2 HYPERPLASIA OF PROSTATE	Т . м	1 -	_	_	_	_	_	_	_	_	-	_	_	_	_	-	_	_	_	1	_	-	_	-
	BREAST		- 	-	_	_	~	-	_	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	_
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A 114	OTHER	. M		_	_	_	_	_	_	_	_	_	-	_	-	-	-	-	-	-	_	-	-	_	_
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	TOTAL (A108-A114)	F	4 - 3 - 7 -	-	-	-	=	-	-	-	1	-	-	-	-	-	-	1 2	-	1	ī	1 2	-	-	-
	XI. COMPLICATIONS OF PREG- NANCY, CHILDBIRTH, MMII PUERPERIUM.																								
A 115	SEPSIS	. F		-	-	-	-	-	-	-	-	-	-	-	-	-	~	-	-	-	-	-	-	-	-
	S TOXAEMIA		1 -	-	-	-	-	-	-	-	1	-1			-		_	_		_	_				_
	7 HAEMORRHAGE		1 -	-	-	-	_	_	-	_	-	_	1	_	_	_	~	_	_	_	-	_	_	_	_
A 118	3 ABORTION WITHOUT SEPSIS OR TOXAEMIA	F		-																					
	ABORTION WITH SEPSIS			-	-	-	-	-			_	_	_	_	_	-	_	_		_	_	_	_	_	-
A 120	OTHER	. F	-	_																					

TOTAL (A115-A120). ..... F

DEATHS OF INDIANS, BY CAUSE AND SEX, BY AGE, ALBERTA, 1967

LIST A	CAUSE OF DEATH										15	20	25	30	35	40	45	50	55	60	65	70	75	6.0		
NO.	INTERMEDIATE LIST A (SEVENTH REVISION)	TOTA	AL.	YR	, 1	2	3	4	ī	14	19	24	29	34	39	44	49	54	519	64	69	74	35	86	854	NS
	XII. XIII. DISEASES OF THE SKIN AND MUSCULDSKELETAL SYSTEM.																									
A 121	SKIN INFECTIONS	M F T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=
A 122	ARTHRITIS AND SPONDYLITIS	H F T	1 - 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 - 1	-	=
A 123	RHEUMATISM	H F	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	-	-	-	-	-	-	-	-
A 124	OSTEOMYELITIS	H F	-	-	-	-	=	-	-	-	-	-	=	-	-	-	-	-	-	-	-	-	-	-	-	=
M 125	ANKYLOSIS AND ACQUIRED DEFORMITIES	H F T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>a</b> 126	OTHER	M F		-	-	-	-	-	-	-	-	- -	-	-	-	-	-	-	_	-	-	-	-	=	-	-
	TOTAL (A121-A126)	T H F	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
	XIV. CONGENITAL MALFORMATIONS.	T	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	-	ı	-	-
M 127	SPINA BIFIDA AND MENINGOCELI	E.																								
A			_	_	_	-	-	_	_	_	_	_	_	_	_	_	_	~	-	_	_	_	_	_	_	_
		F T	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	-	-	-
В	WITH HYDROCEPHALUS		1	_	1	_	_	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	1	_	1	_	_	_	_	_	-	_	_	_	-	_	_	_	-	-	_	_	_	-	_	-
	TOTAL (A127)	M F	1	-	1	-	-	-	-	-	-	-		~	-	-	-	-	-	-	-	-	-	-	-	-
		T	1	-	1	-	-	-	-	_	_	-	_	-	-	-	-	-	_	-	_	-	-	-	-	-
■ 128	CIRCULATORY SYSTEM	M F 4	2	2 2 4		-	-	1 - 1	-	-	1 - 1	-	-	-	-	-	-	-	-	-	=	=	-	-	Ξ	=
# 129	OTHER	M F T	3 1 4	2 1 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 - 1	-	=	Ξ	=	-	Ξ
	TOTAL (A127-A129)	M F	8 3 11	4 3 7	1 -	-	-	1 -	-	-	1 -	-	-	-	-	-	-	:	-	1 -	-	-	-	-	-	-
	XV. DISEASES OF EARLY INFANCY.	• .	I N	,	1	-	•		-	-	ī	-	-	Ī	-	•	•	Ī	•	ľ	-	•	•	•	-	-
M 130	BIRTH [NJURY	м	2	2	-	-	-	_	_	_	_	_	_	_	_	-	-	_	-	-	_	_	_	~	_	-
		F T	3	3	-	-	_	_	_	_	_	-	_	-	_	_	_	_	_	-	_	-	-	_	_	-
A 131	POSTNATAL ASPHYXIA AND ATELECTASIS	H F T	5 2 7	5 2 7	=	-	-	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 132	INFECTIONS OF NEWBORN		2	2	_	-	-	_	-	_	_	~	_	_	-	-	_	_	_	_	-	_	-	-	_	_
		F	2	2	_	-	_	_	_	_	_	_	-	_	_	_	_	_	_	-	_	_	_	-	_	-
A 133	ERYTHROBLASTOSIS	M F T	-	-	Ξ	-	-	-	-	-	-	-	<del>-</del>	-	-	_	-	-	_	-	-	-	-	-	-	-
N 134	OTHER DEFINED		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
		F	1	1	_	-	_	_	_	_	_	_	_	_	Ξ	_	_	_	_	_	-	-	-	_	-	-
a 135	ILL-DEFINED	H :			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL (A130-A135)	H F T	29 16 45	29 16 45	-	-	-	-	=	-	-	=	-	-	-	-	-	•		-		=		-	•	=
	XVI. SYMPTOMS, SENILITY MM ILL-DEFINED CONDITIONS.	10																								
# 136	SENILITY WITHOUT PSYCHOSIS	M F T	1 - 1	-	-	-	=	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	1 - 1	-
m 137	ILL-DEFINED AND UNKNOWN		2		_	+	-	-	-	-	-	-	-	-	-	_	_	-	-	-	-	-	-	-	2	-
		T	3	-	=	-	-	=	-	-	-	-	-	=	-	-	-	-	-	-	=	-	-	-	3	=
	TOTAL (A136, A137)	H F T	3 1 4	=	-	-	-	=	-	-		-	-	-	-	-	-	-	-	=	-	-	-	•	3 1 4	-

TABLE 17

			DEA	THS	OF	INDI	ANS	, BY	CA		ANI		Х. В	Y A	GF.	ALRE	PTA	106	.7								
LIST NO.		CAUSE OF DEATH INTERMEDIATE LIST (SEVENTH REVISION)			-1 YR	1	2	3	4	5 - 9		15	20	25	30	35	40	45	50	55	-	65	70	75	80	858	NS
		XVII. ACCIDENTS, POISONING AND VIOLENCE.	65							,	1.79	19	24	29	34	39	44	49	54	59	64	69	74	79	84		
		EXVII. EXTERNAL CAUSE.																									
AE 1	38	MOTOR VEHICLE ACCIDENTS.																									
	A	TRAFFIC (810-825)	. M F T	25 11 36	-	-	-	-		- 1 1	1 -	1 II 2	6	2 - 2	2 1 3	3	2	3 -	3	-	_ 1	1 2	_	- 1	1 -	_	_
	В	NON-TRAFFIC	. H F T	-	-	- - -	-	-	-	-	-	-	_	-	-	-	3 - ~	3 - -	-	-	1 - -	3 -	-	1 - -	1 -	-	
		TOTAL (AE138)	. M F T	25 11 36	-	-	-	=	-	- 1	1	1 1 2	6	2	2	3	3	3 -	3	-	-	1 2	-	- 1	1	-	-
AE I	39	OTHER TRANSPORT ACCIDENTS.								1		2	- "	2	3	4	3	3	4	-	1	3	-	1	1	-	-
	A	DROWNINGS INVOLVING SMALL BOATS (850)	M F T	1 1 2	-	-	-	-	-	-	-	1	1 -	-	-	-	_	-	-	-	-	-	_	-	-	-	-
	8	DROWNINGS INVOLVING OTHER WATERCRAFT (851)	H F T	-	-	-	- 1		-	-	-	-	-	-	-	-	-	-	-	-	_	-	-		-		-
	С	OTHER TRANSPORT	. H F T	3 -	-	-	-	-	-	-	-	1	-	2	-		-	-	-	-	-	-	-	-		-	
		TOTAL (AE139)	. M F T	4 1 5	-	-	-	-	-	-	-	1 1 2	1	2 - 2		-	=	-	-	_	_	-	-	-	-	-	
AE 1	40	ACCIDENTAL POISONING	. M F T	2 - 2	-	-	-	-	-	-	-	-	-	1 -	-	-	1 -	-	-	-	-	-	-		-	-	-
AE 1	41	ACCIDENTAL FALLS	. III F T	2 1 3	-		-	-	=	-	1 1		-	-	-	-	-	-		-	-	1 -	-	-	-	1	-
AE 1	42	ACCIDENT CAUSED BY	. M F T	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-		-	- - -	-	-		-	-
AE 1	43	ACCIDENT CAUSED BY FIRE AND EXPLOSION	F	4 8	-	1 - 1	= 7	-	_	2 2 4	-	-	-	-		1 1	- 1 1	=	-	1	-	-	-	=		-	
AE 1	44	OTHER ACCIDENTAL BURNS	M F T	-	-	-		-	-	-	-	=	=	-	-	, <u> </u>	- - -	-		-	-	-	-	-	-	-	-
AE 1	45	ACCIDENT CAUSED BY FIREARM	M F T	1 1	=	-	-	-	=	-	-	-	1 - 1	-	-	-	-	-	-	-	-	-	-	-	-		-
AE 1	46	ACCIDENTAL DROWNING	. M F T	9 - 9	-	-	-		-	1 1	2 - 2	1 - 1	2 - 2	2 - 2	-	1 ~ II	-	-	-	-	-	-	-	-	-		-
AE 1	47	ALL OTHER ACCIDENTAL CAUSES	F T	8 11	1 4 5	-	-	-	-	-	-	1 1 2	1 1	- 1 1	1 - 1	-	1	=	-	-	-	-	-	-	-	-	-
		TOTAL (AE138-AE147)		50 25 75	1 4 5	1 - 1	-	-	-	3 6	4 - 4	4 3 7	10 2 12	7 1 8	3 1 4	5 I 6	3 6	3 -	3 1 4	1 1	- 1 1	2 2 4	-	1 1	1 - 1	- 1 1	-
AE 1	48	SUICIDE	F T	6 1 7	-	-	-		-	-	-	1	2 - 2	-	1 1 2	-	1.	-	-	1 - 1	-	-	-	-	-	-	
AE 1	49	HOMICIDE	M F T	6 3 9	-	-	-	-	-	-	-	-	1 1	- 1	1 1	- II 1	1 1	2 - 2	1 1		-	-	1 - 1	-	-	-	
AE 1	50	WAR INJURIES	M F T	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		TOTAL (AE138-AE150)	M F T	29	1 4 5	1	-	Ξ	-	3 6	ă ă		13 2 15	7 2 1	3 7	5 2 7	5 3 11	5	1 5	1 1 2	1 1	2 2 4	1 1	1 1	1	1	-
		NXVII. NATURE OF INJURY.																									
AN 1:	38	FRACTURE OF SKULL		4	=	<u>-</u>	-		-	- 1 1	2 - 2	2 - 2	4	3 - 3		1 1	-	1 1	2 1 3	_	ī 1	- 1 1	-	-	1 - 1	-	-
AN 1	39	FRACTURE OF SPINE AND TRUNK	F	2 1 3	-	- - -	- - -	-	-	;- -	-	-	-	-	1 1	1 1	-	1 1	-	-	-	-	-		- + +	-	-
AN 14	40	FRACTURE OF LIMBS	M	1	_	_	_	_	_	-	_	-	1	-	_	-	_	_	_	-	_	-	-	_	-	-	~

TABLE 17
DEATHS OF INDIANS, BY CAUSE AND SEX, BY AGE, ALBERTA, 1967

LIST A CAUSE OF DEATH NO. INTERMEDIATE LIST & (SEVENTH REVISION)	TOTAL	-1 YR	1	2	3	4	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65 - 69	70 - 74	75 ~ 79	80 - 84	85&	NS
AN 141 DISLOCATION WITHOUT FRACTURE	M - F - T -	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	-	=	-	=	-	=	-
AM 142 SPRAINS AND STRAINS	H - F - T -	-	-	-	-	-	-	-	-	-	=	-	=	-	=	-	=	=	Ξ	=	Ξ	=	-	-
AN 143 OTHER MEAD INJURY	M 8 F 2 T 10	=	=	-	-	-	=	=	1 2	1 - 1	1 1 2	1 1	<u> </u>	2 - 2	1	-	-	-	1	-	-	-	-	-
AN 144 INTERNAL INJURY	H 13 F 6 T 19	-	- - 	-	- - -	-	-	-	1 - 1	2 1 3	-	1	2 1 3	2 1 3	2 - 2	2 - 2	-	-	1 1 2	1	1	-	=	=
AN 145 OPEN WOUNDS	H - F 1 T 1	-	-	-	-	-	-	-	-	- -	-	-	-	1		-	-	-	-	-	-	-	-	-
AN 146 SUPERFICIAL INJURY OR CONTUSION	M - F - T -	-	- - -	-	-	-	-	-	- -	- - -	-	=	-	-	-	=	=	=	=	-	=	-	=	-
AN 147 FOREIGN BODY THROUGH ORIFICE	M - F 2 T 2	- 2 2	-	-	-	=	-	-	-	=	-	-	=	-	-	-	-	-	-	-	-	-	=	-
AN 148 BURNS	H 4 F 4 T 8	-	1 1	-	-	-	2 2 4	-	-	-	-	-	1 - 1	1 1	-	-	1 1	-	-	-	=	-	-	-
AN 149 POISONINGS	H 3 F - T 3	-	-	-	-	-	-	-	- - -	1 - 1	1 - 1	- -	-	1 - 1	- - -	-	=======================================	-	-	=	-	-	-	-
■ 150 OTHER	M 15 F 8 T 23	1 2 1	=	-	-	-	1	2 - 2	1 2 3	1 5	2 1 3	2 2 4	1 1	-	-	-	1 1	- - -	-	-	-	- -	-	-
TOTAL (AN138-AN150)	M 62 F 29 T 91	11 4 5	1 - 1	=	-	=	3 3 6	4 - 5	1	13 2 15	2 9	4 3 7	5 2 7	5 3 8	5	1 5	1 1 2	1	2 2 4	1 1	1 1	1 1	1 1	-
ALL CAUSES.	H 191 F 157 T 348		3 1 4	2	2 2	1 - 1	5	6 1 7	5 14	14 5 19	7 4 PI	4 8	5 8 123	8 7 15	8 2 10	6	5 #	5 7 12	10 6 16	11 2 13	19 12 31	9 8 17	13 13 26	-

	DE	EATHS	BY	CAL	ISE .	AND	SEX	, BY		E, R		TERE	ED II	NDIA	NS.	AI BI	FRTA	19	67							
LIST NO.	A CAUSE OF DEATH	TOT				2		4	5	10	15	20	25	30	35	40	45	50	55	-	65	_	75 -	80	858	NS
	I. INFECTIVE AND PARASIT	16							7	14	19	24	29	34	39	44	49	54	59	64	69	74	79	84		
	TUBERCULOSIS (A1-A5).																									
A	1 RESPIRATORY.																									
	A ACTIVE	M	6	1	_	_	_	_																		
		F T	2 8	1	-	-	-	-	-	-	-	-	-	-	1	-	1 - 1	-	_	-	-	2 - 2	2	-	1	-
	B INACTIVE (002.2, 008.2)	M	- 1	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	~	-	_	_	-	-	-
	TOTAL (ALL	Т	1	-	-	-	-	-	-	-	-	-		-	-	1	-	-	-	-	_	_	_	-	_	_
	TOTAL (A1)	F	6	1	_	_	_	_	_	_	_	_	-	_	1	- 1	1	_	-	-	-	2	2	-	- 1	-
A	2 MENINCES AND CENTRAL	Т	9	1	-	-	-	-	-	-	-	-	+		1	1	1	-	-	-	-	2	2	-	1	-
А	2 MENINGES AND CENTRAL NERVOUS SYSTEM	F	-	_	_	-	-	_	_	_	_	-	_	_	_	_	_	-	-	-	-	-	_	-	-	-
A	2 INTESTINE DEDITORS AND	T	-	-	_	~	-	-	-	-	-	-	-	-	-	-	-	-	-	~	-	-	-	-	-	+
А	3 INTESTINE, PERITONEUM AND MESENTERY	F	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	-	-	_	_	-	-
A	4 ROME AND LOTHE	T	-	_	-	-	-	-	-	-	-	-	+	-	-	-	-			-	-	-	-	-	-	-
А	4 BONE AND JOINT	F	-	_	_	_	_	_	_	_	-	_	_	_	-	_	-	_	_	_	_	-	-	_	-	-
A	5 OTHER FORMS	T M	-	-	-	-	_	_	-	-	~	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	JUTILA TURAS *********	F	-	_	-	-	_	_	_	-	_	_	_	_	_	-	-	_	_	-	_	_	_	_	-	_
	TOTAL (A1-A5)	,	6	,	_	_	_	_	_	-	-	-	_	-	-	-	_	_	-	-	-	-	-	-	-	-
	TUTML (ML-MJ/0 000000000	F T	3	1 -	-	-	_	-	_	-	-	-	-	-	1	1	1 -	_	_	-	-	2 - 2	2 - 2	-	1 1	-
	SYPHILIS (A6-A10).														-	•	•					2	2			_
A	6 CONGENITAL	M	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-		_	_	_	_	_	_		_
		F	-	_	_	_	-	_	_	_	-	_	-	_	-	-	_	-	_	_	-	-	-	_	-	-
A	7 EARLY	M	_	_	_	~	-	_	-	_	_	_	_	-	_	_	-	-	_	_	_	-	_	-	-	_
		F	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-	-
A	8 TABES DORSALIS		-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	_	-	-	-
		F T	-	-	-	-	-	_	-	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	-
Α	9 GENERAL PARESIS	M	-	-	-	-	-	-	-	-	-	-	-	-	-	~	-	-	-	-	-	-	-	-	-	-
		T	-	-	-	-	_	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>A</b> 1	10 OTHERS	M F	1	-	_	-	-	_	_	-	_	_	_	-	-	_	-	-	-	-	1	-	-	-	_	-
		T	1		-	~	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
	TOTAL (A6-A10)	M	1	_	-	-	_	-	_	_	_	_	_	_	_	_	_	-	_	-	1	-	_	_	-	-
		Т	1	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	1	-	-	-	-	-
A :	11 GONOCOCCAL INFECTION	M F	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	-	_	_
		T	-	-	-	-	-	-	-	-	-	-	-	-	~	-	-	-	-	-	-	-	-	-	-	-
A 1	12 TYPHOID	M	_	-	_	_	_	-	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
		T	_	-	-	-	-		_	_	_	_	_	_	_	_	_	_	_	_	~	_	_	_	_	_
A 1	13 PARATYPHOID AND OTHER SALMONELLA	F T	-	-	-	-	-	-	-	_	_	-	_	-	-	_	-	-	-	-	-	_	_	-	-	_
	1.6 CHOLED A	M	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	-	_	_	_	-	_
Α .	14 CHOLERA	F	-	-	-	-	-	_	_	_	_	_	-	-	-	_	_	-	_	_	_	-	_	-	-	-
Δ 1	15 BRUCELLOSIS		_	_	_	_	_	_	_	_	_	_	_	_	~	_	_	_	_	_	_	_	_	_	_	-
А.	15 DRUCELLUSIS **********	F	-	-	_	_	-	_	_	_	_	_	_	-	_	_	_	-	-	_	_	_	_	_	-	_
A	16 DYSENTERY		_	_	~	-	-	-	-	-	-	-		_	-	-	-	-	-	-	_	-	-	-	-	-
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<b>A</b> 1	17 SCARLET FEVER	M	-	-	-	_	-	-	_	-	-	_	-	-	_	-	-	-	-	_	-	-	-	-	-	-
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A 1	18 STREPTOCOCCAL SORE THROAT	M	-	-	-	-	_	_	_	-	-	_	-	_	_	_	-	-	-	-	_	_	-	-	-	-
		F	-	-	-	-	-	-		-		-	-	-	-	-	-	-	-	-	-		-	~	-	~
A :	19 ERYSIPELAS	M	_	_	_	-	_	-	_	_	_	-	_	-	-	_	_	_	-	_	_	_	_	-	-	_
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TABLE 18

DEATHS BY CAUSE AND SEX, BY AGE, REGISTERED INDIANS, ALBERTA, 1967

L I S T		CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)	TOTA	AL -	-1 VII	1	2	3	4	<u>=</u> - 9	10 - 14	15	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60	65 - 69	70 - 74	75 - 79	80 - 84	85&	NS
A	20	SEPTICAEMIA AND PYAEMIA	M F T	1 1	-	_	-	-	-	-	-	-	-	=	-	-	- 1 1	=	-	_	-	-	-	-	-	-	-
	21	DIPHTHERIA	M F	-	-	-	_	-	_	<u>-</u>	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	=
A	22	WHOOPING COUGH	M F	- 2	- - 2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=
	23	MENINGOCOCCAL INFECTIONS	T H E	2	2	_	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-
A	24	PLAGUE	T H E	-	-	-	-	-	-	-	-	- }	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25	LEPROSY	Т	] - j.	- -		-		- -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	26	TETANUS	F T	-	_		-	-	-	_	-	-		_	-	-	_	-	-	-	-	-	-	-	-	-	-
			F	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A	21	ANTHRAX	F	-	-	=	-	=	-	-	-	-	-	-	=	-	-	-	-	_	-	-	-	Ξ	-	-	-
A	28	ACUTE POLIOMYELITIS	F T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A	29	ACUTE ENCEPHALITIS	M F T	-	-	-	-	-		-	-	-	-	-	-	-	-	- - -	-	-	- - -	-	-	-	- -	-	-
A	30	LATE EFFECTS OF POLIO MYELITIS AND ENCEPHALITIS		- - -	-	-	-	- -	-	-	-	- -	-	-	-	-	-	-	-	-	-	- - -	- - -	-	-	-	-
A	31	SMALLPOX	M F T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A	32	MEASLES	M F T	1 2 3	1 1 2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Α	33	YELLOW FEVER	Ī	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	-
A	34	INFECTIOUS HEPATITIS	M F	-	-	-	-	-	-	- -	-	-	-	-	_	-	- -	_	-	-	-	-	-	-	-	-	-
A	35	RABIES	T M F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-
	36	TYPHUS AND OTHER RICKETT- SIAL DISEASES	T M F	-	-	-	-	-	-	-	-	-	-	-	-	_	-	_	-	-	-	-	-	-	-	-	-
	37	MALARIA	T M	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
А	38	SCHISTOSOMIASIS	F T	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20	HYDATID DISEASE	F	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			F	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
λ	40	FILARIASIS	F T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	41	ANKYLOSTOMIASIS	F T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A	42	OTHER DISEASES DUE TO HELMINTHS	F T	-	-	-	-	-	-	-	-	-	-	-	-	-	- - -	- - -	- - -	-	-	- - -	-	-	-	-	-
A	4	3 OTHER	. н Е Т	1 1	- 1-		-	-		- 1 1	-	-	-		-	-	-	-	-	-	-	-	-	00 -	-	-	-
		TOTAL (A1-A43)	F	# 9 17	2 3 5	-	-	1 1	-	1 1	-	-	=	-	=	1 1	- 2 2	1 1	-	-	- - - -	1 1	2 - 2	2 - 2		1 1	-

LIST NO.		CAUSE OF DEATH INTERMEDIATE LIST A	TOTAL								, RE			25	30	4NS,	ALI 40	BER	TA, :	1967 55	60	65	70	75	80		
		(SEVENTH REVISION)	TOTAL	Y		1	2	3	4	9	14	19	24	29	34	39	44	49	54	59	64	-	74	79		856	NS
		II. NEOPLASMS.																									
		MALIGNANT NEOPLASMS (A44-A5	9)																								
	44	BUCCAL CAVITY AND PHARYNX	M - F - T -		-	-	- - -	_			-	_	-	-	-	-		-	-	-	-	-	-	-	-	-	-
A	45	OESDPHAGUS	M - F - T -		-	-	-	-	=	-	-	-	-	_	-	-	-	-	-	-	-	-	_	-	-	-	-
A	46	STOMACH	M 1		-	-	-	-	-	_	-	_	-	_	-	-	-	_	-	-	-	-	_	1 -	-	_	-
	47	INTESTINE, EXCEPT RECTUM	T 2		-	-	-	_	-	-	-	-	-	_	-	_	-	-	-	1	-	-	-	1	-	-	-
A	48	RECTUM	T 1 M - F -		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 -	-	-	_
A	49	LARYNX	T -		- -	-	-	_	-	_	-	-	-	-	-	_	_	-	-	_	-	_	-	-	_	-	_
			F -		-	-	-	-	-	_	_	-	-	_	_	-	-	-	-	-	-	-	-	-	-	-	-
Α.	50	TRACHEA, BRONCHUS, AND LUNG NOT SPECIFIED AS SECONDARY	M 1 F 1 T 2		_	-	-	_	-	-	-	-	-	-	-	-	1	-	-	_	-	-	1 -	-	-	-	-
A	51	BREAST	M -		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	~	-	-
	52	CERVIX UTERI	T -		-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
А		UTERUS, OTHER PARTS			_	_	-	_	_	_	_	_	_	_	_	_	_			_	_						
А		PROSTATE		ι .	_	_	-	_	_	-	_		_	_	_	_	_	_	_	_	_	_	1	_	_	_	_
A	55	SKIN	H -		_	-	-	-	-	- - - - -	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
A	56	BONE AND CONNECTIVE TISSUE	H -	-	-	-	-	-	-	-	-	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	57	OTHER AND UNSPECIFIED SITES	·													_	-		-	-	Ī	-	-	_	-	-	-
	A	DIGESTIVE ORGANS	H -		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1 1	-	-	-	-	-	-	-
	В	RESPIRATORY ORGANS	# -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	С	URINARY ORGANS	M -	-	<u>-</u>	-	-	-	-	-	-	-	-	-	-	\ <u>-</u>	-	-	-	-	-	-	-	-	-	-	-
	D	BRAIN AND NERVOUS SYSTEM (193)	M - F - T -	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Е	OT HER	. м - Е -	-	-	_	-	_	-	-	_	-	-	_	-	-	-	-	-	-	_	-	-	-	-	-	-
		TOTAL (A57)	T -	- - 1	- - -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
	58	LEUKAEMIA AND ALEUKAEMIA	T 1		_	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-
	59	LYMPHATIC AND HAEMATOPOIETI	Т -	-	-	-	-	-	~	-	-	-	-	-	-	-	-	-	-	-	-	-	***	-	-	-	-
	A	SYSTEM.  HODGKIN S (201)	. M -	-	_	-	-	-	-	-	-	_	_	-	-	_	-	_	_	-	-	-	_	-	_	-	-
		OTHER	Т -	-	-	_	-	-	-	_	_	-	-	_	_	-	_	-	_	_	-	_	_	_	_	-	_
		UITER ************************************	F -	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	_	_	-	-
		TOTAL (A59)	, M -	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
		TOTAL (A44-A59)	F T		-	-	-	-	-	-	-	-	-	-	-	-	1 1	-	-	2 2	1	1	2 - 2	2 - 2		-	-
A	60	BENIGN AND UNSPECIFIED	, М - F -	-	_	-	-	-	-	-	-	-	-					-			-	-				-	-
		TOTAL (A44-A60)	H F		-		-	-	-	-	-	-	-			-	1 1		-	2 2	1 1	1 1	2 - 2	2 - 2	-	-	-

LIS		A CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)	TOTAL	L -1 YF		i	2 3	3	4	-	-	~	20 -	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	~	65	-	75 - 79	-	85&	NS
		III. IV. ALLERGIC, ENDOCRI METABOLIC AND BLOOD DISEAS																									
А	61	1 NON-TOXIC GOITRE	M - F - T -						- - -	- -	- -	<u>-</u>	-	-	-	-	-	- -	-	-	-	-	-	=	-	-	-
	62	? THYROTOXICOSIS	M - F - T -						- -	- - -	-	_	_	-	-	-	-	-	-	-	· _	-	-	-	=	-	-
Δ	63	3 DIABETES MELLITUS	M - F - T -		· -	-		-	-	- -	-	=	-	-	-	-	-	-	-		-	-	-	-	-	-	-
Α	64	NUTRITIONAL DEFICIENCY STATES	M - F - T -			-	 	- :	- - -	- -	-	-	-	-	-	-	-	-	-	-	=	-	-	-	=	-	=
A	65	5 ANAEMIAS	M - F - T -		· -	-			-	- - -	- -	-	-	-	-	-	-	-	-	-	=	-	-	-	-	-	=
A	66	5 OTHER	M	-	-	-			- -	- - -	- -	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
		TOTAL (A61-A66)	M - F - T -	-	-	-			-	- -	-	-	-	-	=	-	-	-	-	-	-	-	-	-	=	=	-
		V. MENTAL, PSYCHONEUROTIC PERSONALITY DISORDERS.																									
Δ	67	7 PSYCHOSES	M - F 1 T 1		-	-	 		-	- - -	<u>-</u>	-	=	- - -	-	- 1 1	=	-		-	-	-	- - -	-	-	- - -	-
Δ	68	B PSYCHONEUROTIC AND PERSONA- LITY DISORDERS	M ~ F 2 T 2	-	· -	-		- :	- -	- - -	_ _ _	-	- 1 1	-		- - -	-	-	-		- 1 1	-	-	-		-	-
Δ	69	9 MENTAL DEFICIENCY	M - F - T -		· -				- - -	- - -			- - -	-		- - -	- - -	-	-	-	-		-	-	-		-
		TOTAL (A67-A69)	M ~ F 3 T 3						-		- -	-	- 1 1	-	-	- 1 1	=	-	-	-	- 1 1	-	=	=	-	-	-
		VI. DISEASES OF THE NERVOU SYSTEM AND SENSE ORGANS.	s																								
Α	70	O CEREBROVASCULAR LESIONS	M 7	5 1			 	- :	- - -	- - -	-	-	-	-	- - +	? ?	- - -	- - -	- 1 1	-	- - -	1 - 1	1 1 2	3 - 3	1 - 1	1 - 1	-
Α	71	1 NON-MENINGOCOCCAL MENINGITIS	M - F - T -		 			_	- - -	_ _ _		-	-		-	- - -	-	-	- - -	- - -	- - -	-	- - -	-	- - -		
А	72	2 MULTIPLE SCLEROSIS	M - F - T -		- - -		 	-	- - -	- - -	-		- - -	-	- - -	- - -	-	- - -	- - -	- - -	- - -	- - -	-	- - -	- - -	-	-
Α	73	3 EPILEPSY	м - F - T -		- - -			-	- - -	- - -	- - -		_	-	-	-	-	- - -	-	- - -	- - -	-	- - -	-	- - -	-	-
A	74	4 INFLAMMATORY DISEASES OF THE EYE	М - F - Т -	 	 		 	- - -	- - -		- - -	- - -		-	-	- - -	- - -	- - -	-	- - -	-	-		-	- - -	-	-
A	79	5 CATARACT	M - F - T -				 	- - -	- - -	_ _ _	- - -	_	-	- - -	-	-	-	-	- - -	- - -	- - -	-	<u>-</u> -	- - -	<u>-</u> -	-	
A	76	6 GLAUCOMA	M -						-	-		-	-	-		-	-	-	-	-	-		-	-	-	-	-
A	7	7 OTITIS MEDIA AND	M -						_	-		-		-		-	-				-	-	-	-	-	-	
Α	71	8 OTHER	F :	3 1					-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	- 1 1	1 1	-
		TOTAL (A70-A78)	H F I	7 - 11 :				-	-	-	-	-	-	-	-	2 2	-	-	- 1 1	-	-	1 1	1 1 2	3 - 3	1 1 2	1 1 2	-

LIS		4	CAUSE OF DEATH INTERMEDIATE LIST A	TOTA	A L	-1	1	2	3	4				20			35 35	40	45	50		60	65	70	75	80		
		v	(SEVENTH REVISION)			YR	•			7	9	14	19	24	29	34	39	44	49	54	59	64	69	74	79		85 &	NS
			CIRCULATORY SYSTEM.																									
			ART DISEASE (A79-A83).																									
Α	79	RH	EUMATIC FEVER	M F T	-	-	_	_	_	-	-	_	-	_	-	-	-	-		-	-	_	_	_	-	-	-	_
A	80	о сн	RONIC RHEUMATIC	·	1		_	~	_	_	_	_	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	81	L AR	RTERIOSCLEROTIC AND	H F	15	-	_	-	-	-	-	-	-	-	-	-	-	2	_	-	1	2	1	1	6	1	1	-
				T	24	~	-	-	-	-	~~	-	-	-	-	-	1	2	_	-	1	3	1	1	10	1 2	3	-
A	82	2 01	HER =	M F T	2 2	-	-	-	-	_	_	_	-	_	_	1	_	_	-	_	- -	_	-	_	- 1	-	_	-
A	83	3 HY	PERTENSIVE	м	1	_			_	_	_	~	_	-	_	1	-	_	-	-	~	-	~	-	1	-	-	-
				F	1	_	-	-	_	_	-	_	_	=	-	_	-	_	-	_	_	=	-	-	-	-	-	-
		Т	OTAL (A79-A83)	м	17	_	_	_	_	_	-	1	_	-	_	_	_	2	_	_	1	2	1	1	6	1	2	_
					14 31	_	_	_	_	_	_	1	_	_	_	1	2	- 2	1	_	1	2	1	1	5	1 2	2	_
A	84	4 HY	PERTENSION	M	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	_	-	-	-	_	-	-	_	-
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•	85	5 AR	RTERIAL DISEASES	M F	3	_	_	-	_	_	-	-	_	-	_	_	_	_	-	-	_	-	-	-	-	-	-	-
				T	3	-		-	~	-	-	-	-	-	-	-	-	-	-	1	~	-	-	-	1	-	1	-
A	86	5 01	THER	H F T	_	-	-	_	-	-	-	-	-	-	-	-	_	-	_	-	-	_	-	_	-	-	-	-
			TOTAL (A79-A86)		17	_		_				Ĩ.	_	_	_	-	~	_	-	-	-	_		_	_			_
			VIII. DISEASES OF THE RESPIRATORY SYSTEM.	F	17	-	-	-	-	=	-	1	-	=	-	1	2	2 2	1	1 1	1	2 4	1	1	6 12	1 2	3 5	-
A	8	7 A(	CUTE UPPER RESPIRATORY	M F T		-	- - -	-	-	- - -	- -	-	-	-	-	-	-		- - -	-	-	-	-	-	-	-	=	-
A	8	8 11	NFLUENZA	M F T	-	-	- - -	-	-	-	-	-	-	-	-	-	-	- - -	-	-	-	-	-	-	-		-	-
		PI	NEUMONIA (A89-A91).																									
A	8	9 L(	DBAR	M F T	- 1 1	_	-	-	-	_	-	-	_	-	-	-	_	-	-	_	-	-	-	-	-	-	1	_
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, n	7	0 01	CONTONIO ***********************************	F	7	5	-	2	_	-	-	_	-	_	-	-	-	-	-	-	-	-	_	_	1	1	1	-
А	9	1 A1	TYPICAL, OTHER,	M F	4	3	-	-	-	-	-	-	-	-	_	-	_	-	-	_	_	-	-	_	_	1	-	-
				T	10	7	-	-	-	-	-	-	-	-	-	-		-	-	-	-	î	-	-	î	1	-	-
		1	TOTAL (A89-A91)	F	14	9	-	2	-	_	_		=	-	-	-	-	_	-	_	_	1	_	_	1	1	2	_
			RONCHITIS (A92, A93).	T			_	2	_	_	_	_	_	_	_	_	_	_	_	~	_	ı	-		2	2	2	
Α	9:	2 AC	CUTE	M F T	_ 	_	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Δ	9	3 CF	HRONIC AND UNQUALIFIED		_		_	_	-	-	_		-	_	_	-	-		-	-	_	-	-	-	-	-	-	-
				F	1	_	_	-	-	-	-	_	1	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-
		1	TOTAL (A92. A93)	M F	- 1	_	_	-	-	_	_	_	1	_	-	_	-	_	-	_	_	-	_	_	-	-	_	_
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A	9	4 TC	ONSILS AND ADENOIDS	F	_	_	-	-	_	-	-	-	=	=	-	Ξ	-	_	-	_	_	_	_	_	-	-	-	-
			AND THE PROCESS	T	_	_	_			_	_	_	-	_	-	_	_	_	_	_	_	_	_	-	-	_	-	-
A	9	5 EM	MPYEMA AND LUNG ABSCESS	m F	-	_	-	-	-	-	_	-	_	-	-	-	_	-	-	_	_	_	-	_	-	-	-	-
A	9	6 PL	LEURISY	M E	l -	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	1 -	-
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			TOTAL (A87-A97)	- 1-	10	9	-	2 - 2	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-			2	-

LIST A	CAUSE OF DEATH							5	10	15	20	2.5	30	35	40	45	50	55	60	65	70	75	80		
NO.	INTERMEDIATE LIST M (SEVENTH REVISION)	TOTAL	-1 YR	1	2	3	4	9	14	19	24	29	34	39	44	49	54	59	-	69	74	79	- 8'	5 &	NS
	IX. DISEASES OF THE DIGESTIVE SYSTEM.																								
A 98	DISEASES OF THE TEETH	M - F - T -	-	-	=		-	-	-	_	-		-	-	-	-	-	-	-	-	-	-	-	-	-
<b>a</b> 99	ULCER OF THE STOMACH	M - F + T -	-	-		-	-	-	-	-	- - -	-	-	- - -	- - -	-	-	-	-	_	-	-	-	-	=
A 100	ULCER OF THE DUODENUM	F -	-	-	_	-	_	_	-	-	-	-	-	_	-	-	-	- -	-	-	-	-	-	-	-
A 101	GASTRITIS AND DUODENITIS	T - M - F - T -	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
A 102	APPENDICITIS	H - F - T -	-	-	_ 	-	_	-	-	-	-	-	- -	-	-	-	_	<u>-</u>	-	-	-	-	ī	-	-
A 103	INTESTINAL OBSTRUCTION AND HERNIA	M 1 F -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 -	-	-
<b>a</b> 104	GASTRO-ENTERITIS AND	T 1 M 2 F 6	- 1 5	- 1	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	1	-	- -	-	-
A 105	CIRRHOSIS OF LIVER	T 8	6	1 -	-	-	-	-	-	- - 1	-	-	- - 1	-	-	-	-	-	-	-	1 -	-	-	-	-
A 106	CHOLELITHIASIS AND CHOLECY-	T 2	-	-	-	-	-	-	-	î -	_	-	i ~	-	-	-	-	-	-	-	-	-	-	-	_
A 107	STITIS OTHER	F 2 T 2 M 1	-	-	-	-	-	-	-	-	_	1		-	-	-	-	1	-	-	-	-	-	1	-
	TOTAL (A98-A107)	F - T 1 M 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
		F 10 T 14	5	1	-	=	-	-	-	1	-	1	1	-	-	=	-	1	=	-	1	-	1	1	-
A 109	X. DISEASES OF THE GENITO- URINARY SYSTEM.  ACUTE NEPHRITIS	и –									_	_													
		F -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	=	-	-
▲ 109	CHRONIC AND OTHER NEPHRITIS	M - F L T 1		-	-	-	_	-	-	-	1 1	=)	-	-	-	-	-	-	-	=	-	-	-	-	=
<b>1</b> 10	INFECTIONS OF KIDNEY	M 2 F 1 T 3	-	- - -	-	-	-	- - -	-	-	-	-	-	-	-	-	-	1 1 2	-	-	-	1 - 1	-	-	-
# 111	CALCULI	M - F - T -	-	- -	- - -	-	-	- -	-	-	-	-	-	-	-	-	-	- - -	-	-	-	-	-	-	-
	HYPERPLASIA OF PROSTATE		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
# 113	BREAST	F -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	=
A 114	OTHER	H F T	-	- - -	-	-	-	- - -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL (A108-A114)	H 3 F 2 T H	-	-	=	-	-	-	-	-	1	-	-	-	-	-	-	1 1 2	=	-	I - 1	1 - 1	-	-	-
	XI. COMPLICATIONS OF PREG- NANCY, CHILDBIRTH, AMO PUERPERIUM.																								
A 115	SEPSIS	F -	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	_	-	-	-	-	-
	TOXAEMIA		-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	~
	HAEMORRHAGE			-	-	-	-	-		-	-	-	1		-	-	-	-	-	-	-	~	-	-	-
	ABORTION WITHOUT SEPSIS OR TOXAEMIA		· -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
	ABORTION WITH SEPSIS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A 120	OTHER		-	-	-	-	Ī	-	-	-	-	-	-	-	-	-	-	-	-		***	-	-	-	-
	TOTAL (A115-A120)	F 2	-	-		-	-	-	-		1	-	1	_	-	-	-	-	-	-	-	-	~	-	

LIST A	CAUSE OF DEATH INTERMEDIATE LIST M (SEVENTH REVISION)	TOTA		1 R	i	2	3	4	5 - 9	_	15 - 19	_	_	-	35	40		-	55	-	-	-	75	-	858	NS
	XII. XIII. DISEASES OF THE SKIN AND MUSCULDSKELETAL SYSTEM.												.,		3,	77	77	24	DA	04	69	14	79	84		
<b>a</b> 121	SKIN INFECTIONS	M F T	-	-	-	-	-	-	_	-	-	_	_	-	-	-	-	-	-	-	_	-	-	-	-	-
A 122	ARTHRITIS AND SPONDYLITIS	F	1 -	-	-	-	=	=	_	=	-	-	-	-	-	-	-	-	_	-		-	_	1 -	-	-
A 123	RHEUMATISM	M F T		- -	-	-	-	=	-	-	-	-	-	-	-	-	_	-	-	_	_	-	-	1 -	-	-
124	OSTEOMYELITIS		- - -	-	-	-	-	_	-	-	-		-	-	-	-	-	-	-	-	-	-	_	-	-	-
A 125	ANKYLOSIS AND ACQUIRED DEFORMITIES		- -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	-
A 126	OTHER	M F T	_	-	- 1	-	-	-	-	-	-	-	-	-	=	- -	-	-	-	-	-				-	-
	TOTAL (A121-A126)	F ~	1 -	- ^	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1 -	-	-
	XIV. CONGENITAL MALFORMATIONS.																					_	-	1	-	-
A 127	SPINA BIFIDA AND MENINGOCELE	Ε.																								
	WITHOUT HYDROCEPHALUS	M F T	-	- - -	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-	-
8	WITH HYDROCEPHALUS	F	1 :	-	1 - 1	-	-	-	-	-	-	- - -	-	-	-	-	-	-	-	_	-	- - -	-	-	-	-
	TOTAL (A127)	F .	1 :	-	1	-	-	-	-	-	-	- -	-	=	-	-	-	-	- - -	-	-	- - -	-	-	-	-
	CIRCULATORY SYSTEM	F	3 1 4	L	-	-	= 1	1	-	-	1	- -	-	-	-	-	-	-	-	- - -	-	-	-	-	-	=
A 129		F ·	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	Ī
	TOTAL (A127-A129)	F	7 :	1 .	1	-	Ξ	1 1	-	-	1	-	-	11,	-	-	-	-	-	1	-	=	-	-	-	=
	KV. DISEASES OF EARLY INFANCY.																									
A 130	BIRTH INJURY		1	L	_	-	-	-	-	-	-	_	-	-	-	-	-	_	-	-	_	_	_	_	-	-
		F ·	1	1	-	_	_	_	_	-	_	_	-	_	-	_	_	_	-	_	_	_	_	_	-	-
A 131	POSTNATAL ASPHYXIA AND		3		-	_	_	_	_	_	_	_	_	-	_	_	-	_	_	_	_	_	_	-	-	-
			4 4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-
A 132	INFECTIONS OF NEWBORN	ρ.	2 :	-	_	-	-	_	-	-	_	=	=	-	_	_	_	_	_	=	-	-	-	-	-	-
<b>a</b> 133	ERYTHROBLASTOSIS				-	_	_	-	_	_	_	_	_	-	_	-	-	-	-	_	-	_	-	_	_	_
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A 135		H 1:	6 (	5	- - -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	XVI. SYMPTOMS, SENILITY AND ILL-DEFINED CONDITIONS.	9																								
A 136	SENILITY WITHOUT PSYCHOSIS	F	1 -		-	-	-	-	-	<u>-</u>	-	-	-	-	-	-	-	-		-	-	-	-	-	1 - 1	-
å 137	ILL-DEFINED AND UNKNOWN	M F	1 - 1 - 2 -		-		-	E	-	-	-	-	-	-	-		-	-	-	-	-	_	-	-	1 1 2	-
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D67.1.		DEATHS	BY	CAU	SE A	ND	SEX,	BY	AGE	, RE	GIST	ERE	D IN	IDIA	NS, A	LBE	RTA,	, 196	57							
LIST M	CAUSE OF DEATH INTERMEDIATE LIST (SEVENTH REVISION	A TO	TAL	-1 YR	1	2	3	4	5 - 9	10	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45	50 - 54	55 - 59	60	65 - 69	70 - 74	75 - 79	80 - :	85 &	NS
	XVII. ACCIDENTS, POIS																									
	EXVII. EXTERNAL CAUSE.	•																								
AE 138 N	MOTOR VEHICLE ACCIDENT	TS.																								
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В	DROWNINGS INVOLVING ( WATERCRAFT (851)	OTHER M F T	-	- - -	-	-	-	<u>-</u> -	<del>-</del> -	-	- - -		- - -	-	- - -	-	-	-	-	- - -	-	-	-	- - -	-	-
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AE 140	ACCIDENTAL POISONING	M F T	2 - 2	-	-	-	-	-	-	-	-	-	1 - 1	=	- - -	1 - 1	-	-	-	-	-	-	-	-	-	-
AE 141	ACCIDENTAL FALLS	M F T	-	-	-	-	=	-	-	-	-	-	-	-	=	=======================================	=	=	-	-	-	-	-	-	-	-
AE 142	ACCIDENT CAUSED BY MACHINERY	M F T	-	- - -	-	-		-	-	-	-	-	-	-	-	- -	-	-	-	-	-	-	-	-	=	-
AE 143	ACCIDENT CAUSED BY FI EXPLOSION	RE AND M	2 11 5	-	1 - 1	-	-	-	1 2 3	-	-				-	- - -	-	-	- 1 1	-	-	-	=	-	-	
AE 144	OTHER ACCIDENTAL BURN	S M F T	-	-	-	-	-	-	-	- -	-	-	- - -	-	-	- - -	-	-	- - -	=	-		-	=	-	-
AE 145	ACCIDENT CAUSED BY FI	REARM H	1 - 1	-	-	-		-	-	-	-	1 - 1	-				-	-	-	-	-	-	-	-	-	-
AE 146	ACCIDENTAL DROWNING .	M F T	3 - 3	-	-	-	-	=	1 - 1	1 - 1	-	=	1 - 1	-	-	- -	-	-	-	-	- -	-	- -	-	- - -	-
AE 147	ALL OTHER ACCIDENTAL	CAUSES # F	3 2 5	1 2 3	-	-	-	-	-		1 1	-	-	1 - 1	-	-	-	-	-	-	- - -	-	- - -	-	-	-
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AE 148	SUICIDE	M F T	2 - 2	-	-	-	-	-	-	-	1 - 1	1 - 1	-	- - -	-	-	-	=	- -	- - -	-	-	-	-	-	-
AE 149	HOMICIDE	M F T	3	-	-	-	-	-	-	-	-	1 - 1	1 1	- 1 1	1 1	1 1	1 - 1	-	- - -	-	-	-	- -	=	-	-
AE 150	WAR INJURIES	M F T	-	-	-	- -	- -	-	-	-	-	- - -	- - -		-	-	- - -	- - -	-	-	-	-	- - -	-	-	-
	TOTAL (AE138-AE150)	F	33 16 49	2	1 - 1	-	-	-	2 3 5	1 1	3 1 4	8 1 9	5 1 6	2 1 3	1 2 3	4 - 4	2 - 2	1 1 2	1 1	1 1	1 1 2	-	1 1	1	-	
	NXVII. NATURE OF INJU	JRY.																								
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AN 140	FRACTURE OF LIMBS		_	-	-	=	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 18

DEATHS BY CAUSE AND SEX, BY AGE, REGISTERED INDIANS, ALBERTA, 1967

LIST A	CAUSE OF DEATH INTERMEDIATE LIST A (SEVENTH REVISION)	TOTAL	-1 YR	1	2	3	4	-	10	-	-	25		35	40	45	50			65	70	75	80		
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AN 141	DISLOCATION WITHOUT	м _	-	_	-	-	_	_												0,	17	17	0*		
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AN 142	SPRAINS AND STRAINS	м _														_	_	_	_	-	-	-	-	-	-
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AN 143	OTHER HEAD INJURY	M 3	-	-	-	-		_	_	1	1	_			,										
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AN 144	INTERNAL INJURY	мо													•								_	-	_
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AN 145	OPEN WOUNDS	M -	-	-	-	-	_		_	_	_	_	-	_	_										
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AN 146	SUPERFICIAL INJURY OR	м _	_																						
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AN 148	BURNS	M 2	_	1				,																	
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AN 140	0010001100															-	_	1	_	_		_	_	-	-
AN 149	POISONINGS	III 3	-	-		-	-	-	-	-	1	1	-	-	1		-	_	_				_	_	_
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SELECTED CAUSES OF INFANT DEATH BY SEX AND AGE AT DEATH, INDIANS, ALBERTA, 1967 INT L LIST NO. CAUSE OF DEATH (SEVENTH REVISION) 1 2 3 4 5 6 7-13 14-20 21-27 28 DAYS -DAY DAYS DAYS DAYS DAYS DAYS DAYS DAYS -1 YEAR 2 MOS 2 3 MOS MOS 1. INFECTIVE AND PARASITIC DISEASES. TUBERCULOSIS ...... H 001-019 020-029 SYPHILIS ..... DYSENTERY, ALL FORMS ...... M SCARLET FEVER ..... ERYSIPELAS ..... H 052 DIPHTHEKIA ..... HHOOPING COUGH ..... MENINGOCOCCAL INFECTIONS ... M HEASLES ..... M OTHER OF 001-138 ...... # CLASS I TOTAL ...... II 11. NEOPLASMS. 140-205 HAL IGNANT YEDPLASMS. HODGKIN S DISEASE ...... 201 LEUKAEMIA ANO ALEUKAEMIA ... H 204 TOTAL (140-205) ...... BENIGN NEOPLASMS ...... 210-229 OTHER NEOPLASMS ...... 230-239 CLASS II TOTAL ...... N III. ALLERGIC. ENDOCRINE AND METABOLIC DISEASES. DISEASES OF THYMUS GLAND ... # OTHER DF 240-289 ..... # CLASS 111 TOTAL ...... R CLASS EV TOTAL ..... H V. MENTAL DISORDERS. MENTAL DEFICIENCY ......... 325 OTHER OF 300-326 ...... M CLASS V TOTAL ..... II VI. DISEASES OF NERVOUS SYSTEM AND THE SENSE ORGANS. HENINGITIS ..... M OTITIS MEDIA ...... 391-392 OTHER OF 330-398 ...... M CLASS VI TOTAL ..... # VII. DISEASES IN CIRCULATORY
SYSTEM. CLASS VIE TOTAL ...... H 800-468 VIII. DISEASES OF THE RESPIRATORY SYSTEM. ACUTE UPPER RESPIRATORY .... M INFLUENZA ...... M 480-483 PNEUMONIA (4 MEEKS AND ..... M OVER) F OTHER OF 470-527 ...... M CLASS VIII TOTAL ...... M IX. DISEASES OF DIGESTIVE SYSTEM. GASTRITIS ... M

TABLE 19
SELECTED CAUSES OF INFANT DEATH BY SEX AND AGE AT DEATH, INDIANS, ALBERTA, 1967

INT L LIST NO.	CAUSE OF DEATH (SEVENTH REVISION)	TOTAL	TOTAL -28 DAYS	-1 DAY	1 DAY	II DAYS		ONATAL 4 DAYS	5 DAYS	6 DAYS	7-13	14-20 DAYS	21-27		28 DAYS	2	3		POST-NEO		,				
560-570	HERNIA AND INTESTINAL M OBSTRUCTION F	-	-	-	-	- 1		-	-	-	OAYS	DAYS	DAYS -	-1 YEAR	2 HOS	MOS	MOS	MOS -	- NOS	MOS	MOS	HDS -	HDS -	- 50k	HDS -
571	GASTRO-ENTERITIS AND M COLIFES (4 MEEKS AND OVER) F	2 7 9	-	-	=	-	-	-			-	-	-	- 2 7	1	-	1								
572	CHRONIC ENTERITIS AND M ULCERATIVE COLITIS F	-	ī	-		-	-	-			-	-		9	2	2 -	ī	i i	t -			1		1	
	OTHER OF 530-587	=	-	-	-	-	-	-	-		-														
	CLASS IX TOTAL H	2 7	-	-	-	-	-	-	-		-	-	-	2	-	-	:								
	X. DESEASES OF GENETO- URINARY SYSTEM.	9	-	-	-	-	-	-	-	-	Ē	-	-	7 9	1 2	2	1	1 1	i i	-	-	1 1	-	1	-
590-637	CLASS II TOTAL II	-	ī		1	-	-	-	ī	-	-	ī	-	_	-	_		-	_						
	XII. XIII. DISEASES OF THE SKIN AND	-	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	=	-	÷
690-749	MUSCULOSKELETAL SYSTEM. CLASS XII, XIII TOTAL II	-	_	-	_	_	-	_	_	_	_	_													
	XIV. CONGENITAL	-	-	-	Ξ	=	-	-	Ĩ.	-	-	-	-	-	-	-	-	=	=	-	-	=	-	Ē	
750-759	MALFORMATIONS.  CLASS XIV TOTAL M	4	2	1	_	-	_	_	-	_	_	_	1	2	1	ı		_							
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760-761	INJURY AT BIRTH.																								
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762	POSTNATAL ASPHYXIA AND ATELECTASIS.	3		2	-	-	1					-						-							
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763	PNEUMONIA OF NEWBORN.	7	6	4		·	i					-		1		1									
+0	HITHOUT IMMATURITY H F T	1	1 - 1	1 - 1	-							-													
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764	DIARRHOEA OF NEMBORN.																								
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165-768	DIMER INFECTIONS OF THE NEWBORN.																								
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769	MATERNAL TOXAEMIA.																								
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.59	WITH IMMATURITY N F T		-		Ē	-	=	-																	
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770	ERYTHROBLASTOSIS, WITHOUT IMMATURITY	-	_	-	Ē	-	-	-											-		-				
.57	HITH IMMATURITY	-	-			-		-																	
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771	HAEMDRRHAGIC DISEASE OF NEWBORN- WITHOUT IMMATURITY											Ē										Ē			
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*772	NUTRITIONAL MALADJUSTMENT.  HITHOUT IMMATURITY	- 1 1	i	1								-		- 1 1			1 1						-		
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TABLE 19
SELECTED CAUSES OF INFANT DEATH BY SEX AND AGE AT DEATH, INDIANS, ALBERTA, 1967

INT L LIST NO.	CAUSE OF DEATH (SEVENTH REVISION)	TOTAL	TOTAL -28 DAYS	-1 DAY	1 DAY	II DAYS	3	MATAL 4 DAYS	5 DAYS	6 DAYS	7-13 DAYS	14-20 DAYS	21-27 DAYS	TOTAL 28 DAYS -1 YEAR	28 DAYS	2 MOS	3 MOS	4 HOS	OST-NEO 5 MOS	MATAL 6 MOS	7 MOS	II MOS	9 MOS	10 MOS	11 MOS
773	ILL-DEFINED DISEASES PECULIAR TO EARLY INFANCY.																								
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774-776	IMMATURITY # F	5 7 12	5 7 12	. 4 6 10	Ē	Ē	1	=	Ī	-	-	1 - 1	=	Ē		-	-	Ē	=	=	=	Ξ	=	-	-
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	XVI. ILL-DEFINED CONDITIONS.																								
795	ILL-DEFINED AND UNKNOWN M CAUSES F	=	3	=	=	=======================================	Ī	=	=	Ē	-	=	-	3	-	=	Ē	-	-	Ē	-	Ξ	Ξ	=	-
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	XVII. ACCIDENTAL AND VIOLENT CAUSES.																								
E810-E825	MOTOR VEHICLE TRAFFIC M ACCIDENTS F	=	Ī	Ē	Ē	=	-	-	-	Ξ	-	=	-	=	-	=	=	-	-	-	-	Ξ	Ξ	Ξ	-
E900-E904	ACCIDENTAL FALLS H F T	Ē	Ē	Ē	=	Ī	Ē	=	Ē	Ē	-	=	Ξ	=	3	Ē	Ē	Ē	=	-	Ē	=	Ξ	Ē	-
E916	FIRE ACCIDENTS M F T	=	Ē	-	-	Ξ	-	Ξ	=	Ē	-	=	=	-		Ē	Ē	Ē	Ē	1	Ξ	Ξ	Ξ	=	-
E9Z1-E9Z2	INHALATION AND INGESTION # F	2 2	2 2	=	- 1 1	- 1 1	Ē	Ī	Ē	-	-	=	=		Ē	-	Ē	Ē	=	-	ŝ	Ξ	Ξ	Ē	Ē
E924~E925	MECHANICAL SUFFOCATION M F T	1 1 2	-	-	į	=	-	-	Ē	Ē	=	=	=	1 1 2	Ē	Ē	Ē	Ē	1 - 1	-	=	Ξ	Ē	Ξ	1 1
	OTHER OF E800-E999 H F	1 1	-	-	=	Ξ	Ē	=	-	-	-		=	1 1	1	=	-	-	1	i	Ξ	=	-	Ē	:
	CLASS XVII TOTAL M F T	1 4 5	2 2	Ξ	1 1	- 1 1	Ē	=	Ξ	=	-		Ξ	1 2 3	Ē	=	=	-	1 1 8	-	Ξ	=	=	=	1 1
	TOTAL ALL CAUSES # F	44 III 95	25 16 41	16 10	2 1 3	1 2 3	1 2 1	1	=	:	-	2	1 3	19 35 54	4 8 12	6 10	5 3 8	1 3 4	*	i	1	1	Ξ	2 2	2 2

TABLE 20

SELECTED CAUSES OF INFANT DEATH BY SEX AND AGE AT DEATH, REGISTERED INDIANS, ALBERTA, 1967

INT L LIST NO.	CAUSE OF DEATH (SEVENTH REVISION)	TOTAL	TOTAL -28 DAYS	~1 DAY	1 DAY	2 DAYS	NE 3 DAYS	DNATAL 4 DAYS	5 DAYS	6 DAYS	7-13 DAVS	14-20	21-27	TOTAL 28 DAYS -1 YEAR	28 DAYS	2	3		POST-NED		7	8	9	10	11
	1. IMFECTIVE AND PARASITIC DISEASES.											5,13	Dars	-I TEAR	2 HOS	MOS	MOS	MOS	MÓS	ADS.	MOS	HOS	MOS	MDS	11 HOS
001-019	TUBERCULOSIS	1 -			- 1	į.	:	-				-	-	1	-	-			1						
020-029	SYPHILIS	-		-	-	-	-					-	-	1 -	-		-	-	1						
045-048	DYSENTERY. ALL FORMS	-	-	-	-	-	-	-				-			2			-	-						
050	SCARLET FEVER			-	-	-	-	-			-		-		=		-		- 1						
	F T	-	-	Ē	-	-	-	-		-		-	- 2		- 3	-		-	Ē			-			
052	ERYSIPELAS	-	-			-	- 1	-	-	-	-	Ξ	- 1		-			-	-						
055	DIPHTHERIA	:	-	-	-	-	-	÷	-	-	-	-			-	-	-	-	-		-				
056	WHOOPING COUGH	- 2	ī	-	-	-		-	-	-	-	-	-	-					-	-		-			
057	MENINGOCOCCAL INFECTIONS H	2 -	i -	-	-	-	-	-	-	-	-	-	1	l i	-		1								
085	MEASLES		-	-	-		-	-	-	-	-	-		1					-		-	-			
	F	1 2	-	-	-	-	-	-	=	-	-	-		1 1 2	- 1			1 1				1 -			
	OTHER OF 001-138 M F T	3	-	-	-		-	-	-	-	- 3	- 3	Ē	3	2 - 2		1	-	Ī						-
	CLASS T TOTAL M	5 3 8	1	-	ĩ	-	Ξ	Ξ	-	ī	-	1	- L	5 2	2	-	1 1	1	1	-	-	1	-	-	-
140	II. NEOPLASMS.								-		-	-	1	7	2	-	2	1	1	-		1	-	-	-
201	MALIGNANT NEOPLASMS. HODGKIN S DISEASE	_		_	_		_	_	_		_														
204	T LEUKAEMIA AND ALEUKAEMIA N	-	-	-	-	-	-	-	-	-	-	-	-			- 1		-		-		-		-	
	F T		-	-	=	-	Ē	=	-	-	-		-						-			-	-		
	DTHER OF 140~205 M	Ĩ	-	-	Ē	-	Ī	Ē	Ē	-	-	- 3		-	-	ĵ.	-	1	Ē		-				ž
	TOTAL (140-205) M	-	-	-	-	-	Ξ	÷	-	-	1	-				-		-	-						
210-229	BENIGN NEOPLASMS II	1	-	-	-	-	-	-	-	-	.5	-	-	1	-			-	-			~		-	-
230-239	OTHER NEOPLASMS	l -	-	-	-	-	-	-	-	-	-	-	-	1				-	-			-	-	-	î
	CLASS II TOTAL M	1	- 1	-		-		-	-	-	-	-	-	-	=	-		-	-				-	-	-
	r T	i	-	-	=	-	-	=	Ē	-	-	-	Ī	- 1		Ē	-	Ē	-	-		=	Ξ	=	1
	III. ALLERGIC, ENDOCRINE METABOLIC DISEASES.																								
273	DISEASES OF THYMUS GLAND M F T	2 1 3	1 1	-	-	-	-		-	-	-	-	1 - 1	1 1 2	Ē	1 1 2	-		-	-		- :	-	-	
	OTHER OF 240-289 M	1 1	1 -	-	-		-	-	-	-	1 -	-	-		-		-	-	-			-			
	CLASS III TOTAL M	3	2	-	-	-	-	-	-	-	1	-	1	1	=	1	1			-	-	-	-	-	-
	TV. BLOOD DISEASES.	*	2	-	-	-	-	-	-	-	ι	-	ı	2		2					-		-	-	-
290-299	CLASS IV TOTAL # F	1 2	=	=	-	-	-	Ē	Ē	-	-	Ē	Ē	1 2	Ξ	-	-	=	=	-	1	-	-	1	Ī
325	V. MENTAL DESORDERS.  MENTAL DEFICIENCY	_	_	_	_		-		-	-	-	-	_		-			-		-			-		-
	OTHER OF 300-326 M	=	-		-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	
	r T		-	=	-	-	-	=	2	-	-	÷	=		=	-	-	-	-	-	-	2	-	-	
	CLASS V TOTAL # F	Ē	-	-	-	-	-	-	=	=	-	-	-	= 3	= =	=	Ē	-	-	-	Ē	-	-	Ē	Ē
	VI. DISEASES OF MERVOUS SYSTEM DIE THE SENSE ORGANS.																								
340	MENINGITIS M	1	1	-	-	-	-	-	-	1 -	-	-	-	1 1				-	-	-	- 1	1	-	-	
391-392	OTITIS MEDIA M		-	-	=	-	-	-	-	Ξ	-	-	Ξ		-	-	-	-	-	2	5			-	
	OTHER OF 330-398	1	-	-	-	-	-	-	-	-	-	-	- [	1 4	_	-	-	-	-	ī	1		-		-
	Ť	5	-	-	-	-		-	-	1	-	-	-	5	1	-	-	-	_	i _	1	-	-	-	i -
	CLASS VI TOTAL H	5 7	1	-	Ξ	Ī	Ē	-	-	1	Ī	-	-	6	1	-	-	-	-	1	2	1	-	-	i i
	VII. DISEASES OF CIRCULATORY SYSTEM.						_		_		_	_	_					-		1	-		_	1	
400-468	CLASS VII TOTAL H F T	=	=	-	-	-	-	Ξ	Ξ	-		-	-		-			=	-	2	1	=	ū	2	
	VIII. DISEASES OF THE RESPIRATORY SYSTEM.								_					2			,								
470-475	ACUTE UPPER RESPIRATORY M INFECTION F	2 3 5	-	=	-	Ē	Ē	-	=	2	-	-		3 5		5	2							-	1
480-483	INFLUENZA # F	1	-	-	-		-	-	-					1				1					-		
490-493	PNEUMONIA (4 NEEKS AND N OVER)	20 30 50	-		-	-	Ē	-			1			20 30 50	9	6 11	4		3 5	2 2	5 1 4	2 3			1 2
500-502	BRONCHITIS M	1 2	-	-	-	-	-	-	-					1 2 3			1					i.		1 1	
	OTHER OF 470-527 M	3 2	-		-	-					-	-							1			1 -		-	
	F	5	-		-	-	-	-	-	-	-	-	:	25 36 61	7 9	5 8	5 4	3	3 3	- 2	3	2		-	- 2
	CLASS VIII TOTAL H F T	25 36 61	=	-	Ξ	Ξ	=	-	-	-	=	=	-	61	16	13	9	3	6	2	4	5	-	ı	2
	IX. DISEASES OF DIGESTIVE								_			Ē	Ē		-										
543	GASTRITIS AND DUODENITIS M F T		Ē	-	-	-	-	-	Ī	-	Ī	-													

TABLE 20
SELECTED CAUSES OF INFANT DEATH BY SEX AND AGE AT DEATH, REGISTERED INDIANS, ALBERTA, 1967

INT L LIST NO.	CAUSE DE DEATH	TOTAL	TOTAL -28 DAYS	-1	,	2	N.E.	ONATAL			7-13	14-20	21-27	TOTAL 28 DAYS	28 DAYS	7	3	P	OST-NEC	6	7		q	10	11
NO. 560-570	CAUSE OF DEATH (SEVENTH REVISION) HERNIA AND INTESTINAL M OBSTRUCTION F	6 3 9	DAYS 6 2	DAY 4	DAY 2 - 2	DAYS	DAYS	DAYS	DAÝS -	DAYS -	7-13 OAYS	14-20 DAYS	OAYS -	28 DAYS -1 YEAR -	2 HOS	HOS	MOS	HOS -	HOS	HOS -	MOS	MOS -	HOS -	10 MOS - -	MOS
571	GASTRO-ENTERITIS AND M COLITIS (4 WEEKS AND OVER) F	5 9	-	-	-	2	=	-	-	-	-	2	-	5 9	2 1 3	3	1	1	1	-	-	1 1 2	1 -	2 2	:
572	CHRONIC ENTERITIS AND H ULCERATIVE COLITIS	14	-		=	-	-	-	=	-	-	-	-		-		-	-		2		2	-		:
	OTHER OF 530-587 M	-	-	-	-	-	-		-	- 1	-	-	-	-	:	-	-	-	-	-	-	1	-	-	
	CLASS IX TOTAL H	11 12 23	6 2	4	2 -	-	-	-	-	-	-	-	-	5 10 15	- 2 2	- 3	1	î	- 1	2	-	1 1	1 -	- 2	:
	X. DISEASES OF GENITO- URINARY SYSTEM.	23		· i	2	i	-	-	-	-	-	-	-	15	4	3	1	1	1	-	-	2	1	2	-
590-637	CLASS X YOTAL M F T	=	-	-	=	Ξ	Ξ	=	=	=	Ē	Ē	Ξ	-	-	-	Ī	Ē	=	-	=	=	-	Ē	-
	XII. XIII. DISEASES OF THE SKIN AND MUSCULOSKELETAL SYSTEM.																								
690-749	CLASS XII. XIII TOTAL M F T	- ! 1	=	=	=	Ē,	Ē	Ξ	Ē	-	Ī	=	Ē	1	Ē	-	Ē	Ē	1 1	-		-	-	Ĩ	3
	XIV. CONGENERAL MALFORMATIONS.			.,			,	3	_		7	2	,	22	7	6	2		,	2	,	,			
750-759	CLASS XIV TOTAL M F T	62 45 107	40 19 59	15 4 19	2	2 7	5	3	=	Ē	11	3 5	3	22 26 48	8 15	3 8	5	1 2	2 5	2	1	3 4	1	1	-
760-761	XV. DISEASES OF EARLY INFANCY. INJURY AT BIRTH.																								
.0	WITHOUT IMMATURITY	4	4	3	-	-	ı		-	-	-	-	1	-		-			-			-	-	-	
.5	WITH IMMATURITY #	3 7 19	3 7	5	3		1 -	-	-	-	=	-	-	-		-	-	-	-	-		-	-	-	
	F T	19 17 36	19 17 36 23	13 27	2 5	2	-	1	1	-	-	-	-		-	-	-	-	-		-	1	-	-	-
	F	23 20 43	20 43	17 15 32	6	2	1	1	1		Ξ	-	-	-	2	-	-	-	-	-				-	
762	POSIMATAL ASPHYXIA AND ATELECTASIS. WITHOUT IMMATURITY	13	12		1	4	_	1	_	_	_	-	-	1		ı	_	_				_	_	_	
.5	HITH IMMATURITY	11 24 31	9 21 31	14	1	4	1	î	-	-	- 1	-	-	3	2 -	1	-	-		-		-	=	-	-
• /	Ť	21 52	20 5 l	1 L 33	2 5	3 7	1 2	- 1	=	1	2 3		-	1	1	1	-	-	=	-		-	=	Ī	-
	TOTAL (762) # F	44 32 76	43 29 72	28 19 47	2	3 11	3	1	_	1	3	-	-	3 4	3	1	-	-	2	-				-	
763	PNEUMONIA OF NEMBORN.  HITHOUT IMMATURITY	1	t 1	1	ĩ	-	Ĩ.	-	-	=	-	_	-	-	1	-	-	Ē	Ē	-	-	-	2	1	
.5	WITH IMMATURITY	3 2	3 2	1	1	1	=	-	=	=	2		=	-	-	=	-	-	-	-	-	-		-	
	TOTAL (763)	5	5	1	1 -	1	-	1	-	-	2	-	-		- 1	-	-	-	-	-	-	-	-		
764	DIARRHOEA OF NEMBORN.	7	7	1	2	j	-	-	-	-	2	-	-	-			-								
.0	WITHOUT IMMATURITY # F	1	1 1	- 1	=	=	=	=	Ξ	-	-	=	1	-		Ē	-	-	-	-		-	- 1	- 1	
.5	WITH IMMATURITY B F T	Ē	-	-	=	-	Ē	-	Ξ	-	-	=	=	-	=	=	-	-	Ī	=	-	Ē	-	=	
	TOTAL (764)	1 - 1	1 - 1	-	Ē	-	Ē	-	=	-	=	-	1	-	-	-	-	-	-	-	-	=		=	
765-768	OTHER INFECTIONS OF THE NEWBORN.																					_			
•0	WITHOUT IMMATURITY # F T	2	2 - 2	=	1 1	-	=	=	=	1	-		=	=	-	-	-	-	-	-	-	ī	Ĵ		
.5	# YIIRUTAMMI HT1W F T	-	Ī	-	=	Ξ	=	=	Ē	-		=	=	=	-	-	-	-	Ē	-	-	-			
	TOTAL (765-768) # F	2 - II	2 2	=	1 1	=	Ē		Ξ	1 1		=	-	=		-	=	-	Ī		-	=			
769	MATERNAL TOXAEMIA.	_	_	_	_	_	_	_	_	_	-	_		-	- 5	-	-	-	-	-	-	1	-		
.59	WITH IMMATURITY	- 1	- 1	1	=	-	-		-	-				-	-	-	-	-	-	-	-	-			
	TOTAL (769)	1 2 3	1 1 2	1 2 3	-	-	=	-	-	-	:			:		-	-	-		-	-	-		-	
770	F T ERYTHROBUASTOSIS.	3	3	3	=	-	-	-	-	_				-	-	-	-	-	-	-	-	-	-		
*0~*5	WITHOUT IMMATURITY #	3 4 7	3 4	3	- 1	=	=	=	=					=	Ē	=	-	-	Ē	Ē	-		-	-	
.57	WITH IMMATURITY #	2	2 2		-	1	-	_						=		-	=	-	-	-	-	Ē	-	-	
	TOTAL (770) #					. 1							: :			-		-	- 3	-	-	-	-		
771	T HAEMORRHAGIC DISEASE OF NEWBORN-	•	9	7	1	. 1	_																		
.0	HITHOUT IMMATURITY #		3 3	1	- 1 1	1	=	Ē					: :	=	-	=	-	=	=	=	=	=	=	-	
.5	WITH IMMATURITY H		1 1	1			-						= :			-	Ē	-	Ī	-	-	-	-	-	
	TOTAL (771)		1 1 1 1 3 1			-	-						= :			=	-	-	Ē	-	-	=	Ē	Ē	
772	T NUTRITIONAL MALAOJUSTMENT.		4 4	2																					
-0	MITHOUT IMMATURITY H F T		1 :				=						= :				1	-	=	-	=	-	-	-	
.5	WITH IMMATURITY # F T		- :			=	-			- :		=			=	-	-	-	Ē	-	Ē	-	-	-	
	FOTAL (772) 8 F		l i	. :						-	-	=	-	- i	=	Ē	l 1	-	-	-	-	=	-	-	

1NT L L1ST NO- 773	CAUSE OF DEATH (SEVENTH REVISION) ILL-DEFINED DISEASES PECULIAR TO EARLY INFANCY.	TOTAL	TOTAL -28 DAYS	OAY -1	DAY	DAYS	3	DAYS	5 DAYS	6 DAYS	7-13 0AYS	14-20 DAYS	21-27 DAYS	TOTAL 80 DAYS -1 YEAR	28 DAYS	MDS	3 MOS	HOS	POST-NEC S MOS	MOS MOS	7 #05	II MOS	9 MDS	10 MOS	11 MOS
.0	WITHOUT IMMATURITY # F T	30 26 56	11 17 28	6 10 16	1 3 4	1 3 4	1	1 - t	-		-	Ξ	1 1 2	19	6 4 10	4 1 5	2 1 3	4 2	1 1 2	1 -	-	-	1	1 -	
.5	WITH IMMATURITY M F T	38 28 66	38 28 66	17 19 36	8 2 10	4 3 7	3 1 4	2 I II	1 - 1	2 - 2	1	1 1 2	-	-	-	-			Ē	-		-		-	
	TOTAL (7731 P F T	68 54 122	49 45 94	23 29 52	9 5 14	5 6 11	4 1 5	3 1 4	1	2 - 2	1	1 1 2	1 1 2	19 9 28	6 4 10	4 1 5	2 1 3	4 2 6	1 1 2	1	-	Ē	-	1 -	
774-776	IMMATURITY B	59 47 106	58 46 104	47 34 81	4 4 8	2 2 4	2 2	1 1	1 3 4	1 - 1	-	1 - 1	-	1 1 2	-	1	1 - 1	-	Ē	Ē	Ē	-	-	-	į
	CLASS XV TOTAL M F T	166 374	187 152 339	122 103 225	21 16 39	19 13 32	# 5 13	II II 7	2 4 6	1 5	3 3 6	2 1 3	2 1 3	21 14 35	6 7 13	5 2 7	3 2 5	4 2 6	1 1 2	1 -	-	Ξ	Ē	1 -	-
	XVI. ILL-DEFINED CONDITIONS.																								
795	TLL-DEFINED AND UNKNOWN B CAUSES F	-	ê	-	-	Ē	-	-	:		-	Ξ	-	-	:	-	-	1	-	Ē	-	-		-	
	OTHER OF 780-795 M F T	=	-	-	-	-	-	î	-	Ē	Ē	=	1	-	-	-	-	Ē	Ē	=		-	-	-	-
	CLASS XVI TOTAL H F T	=	Ē	=	-	-	-	-	-	-	-	-	-	=	Ē	-	-	-	=	=	Ē	-	-	-	2
	XVII. ACCIDENTAL DE VIOLENT CAUSES.																								
E810-E825	MOTOR VEHICLE TRAFFIC M ACCIDENTS F	1 2 3	-	-	=	=	-	=	-		-	Ē		1 2 3		1 - 1	1	- 1 1	-	-	-	-		-	-
E900-E904	ACCIDENTAL FALLS M F	2 2	=	-	-	-	=	-	=	-	Ē	=	=	2 2	-		-	Ē	Ĩ	-	-	-		2 2	-
E916	FIRE ACCIDENTS M F T	2 2		-	Ē	-	Ē	-	=	=	=	=	=	- 2 2	-	Ĩ	Ē	- 2 2	-	-	-	-	-	-	-
E921-E922	INHALATION AND INGESTION M F T	6 3 9	2 2	-	- 1 1	- 1 1	-	-	-	=	-	=	-	6 1 7	:	1 ~	3 - 3	-	1 - 1	-	-	1 - 1	- 1 1	Ē	Ē
E924-E925	MECHANICAL SUFFOCATION M F T	2 5 7	-	-	-	-	-	-	-	=	-	=	-	2 5 7	1 1 2	- 1 1	-	Ē	1 2 3	-	-	-	Ē	Ē	1
	OTHER OF E800-E999 M F T	2 2 4	-	-	-	=	-	-	-	Ē	-	-	-	2 2 4	1 - 1	-	Ē	-	- 1 1	- 1 1	-	-	-	1 - 1	Ē
	CLASS XVII TOTAL M F T	11 16 27	2	-	1 1	i	=	-	-	=	-	-	-	11 14 25	2 1 3	2 1 3	3 1 4	3	2 3 5	i L	-	1 -1	1 1	1 2 3	1 1
	TOTAL ALL CAUSES M	329 888 883	176	141	27 21	24 17 41		7 3 10	2 4	5 1 6	11 7 18	4	4	93 110 203	26 28 54	18 18 34	15 13 28	5 11 16	10 11 21	3 11	6 2 8	# #	1 2 3	2 7 9	1 6

### TABLE 21 LIVE BIRTHS OF INDIANS BY MONTHS, ALBERTA, 1967

					МС	NTHS	3					
Total	January	February	March	April	May	June	July	August	September	October	November	December
2,286	225	183	215	192	196	190	172	183	196	177	183	174

TABLE 22 LIVE BIRTHS OF REGISTERED INDIANS BY MONTHS, ALBERTA, 1967

					MO	NTHS						
Total	January	February	March	April	May	June	July	August	September	October	November	December
1,263	130	101	102	108	125	113	96	105	101	108	85	89

TABLE 23
LEGITIMATE AND ILLEGITIMATE BIRTHS OF INDIANS
(EXCLUSIVE OF STILLBIRTHS) ALBERTA, 1967

Tota	l Births		I	egitimate		Illeg	gitimate	
Total	Male	Fem <b>al</b> e	Total	Male	Female	Total	Male	Female
2,286	1,125	1,161	1,345	646	699	941	479	462

TABLE 24

LEGITIMATE AND ILLEGITIMATE BIRTHS OF
REGISTERED INDIANS (EXCLUSIVE OF STILLBIRTHS) ALBERTA, 1967

То	tal Births	3	L	egitimate	9	111	egitimat	е
Total	Male	Female	Total	Male	Female	Total	Male	Female
1,263	621	642	687	334	353	576	287	289

TABLE 25 LIVE BIRTHS OF INDIANS BY AGE OF PARENTS, ALBERTA, 1967

A					AG	E OF F	ATHER						Total	Born	
Age of Mother (years)	Under 20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 & over		Born to Married Mothers	to un- married Mothers	Born to all Mothers
12	-	-	-	-	-	-	-	_	-	-	-	-	_	-	_
13 14	_	-	-	-	-	-	-	-	-	-	-	-	-	1	1
15	_	1	_	_	_		_	-	_	_	_	_	1	3 15	3 16
16	2	5	2	-	-	-	-	-	-	-	_	_	9	38	47
17	4	13	2	1	_	_	_	_	_	_	_	_	20	62	82
18	3	39	9	4	-	-	1	-	-	_	-	_	56	69	125
19	4	34	19	4	-	-	-	-	-	-	-	-	61	100	161
20	-	39	31	6	5	-	1	-	-	-	-	-	82	82	164
21	1	28	45	12	4	2	-	-	-	-	-	-	92	71	163
22	-	26	43	15	1	-	-	-	-	-	-	-	85	63	148
23	-	23	26	21	8	-	-	-	-	-	-	-	78	57	135
24 25	_	8 12	48	33 19	12 5	- 1	2	-	-	-	-	-	101	53	154
26	_	4	27	27	14	4	1	1	_	_	_	_	78	43	115 112
27	-	2	28 19	22	7	2	2	-	-	-	-	-	63	28	91
28 29	-	-	11	22 34	11	3 4	1 1	3	1	_	_	-	56 68	29	85 98
30	_	_	6	16	16	7	3	1	_	_	_		49	18	67
31	-	-	2	21	17	8	-	î	-	-	-	-	49	29	78
32	-	_	2	8	14	7	1	-	1		_	_	33	20	53
33	_	_	2	15	22	14	2	1	_	_	_	-	56	8	64
34	-	-	1	10	12	9	4	-	1	-	-	-	37	21	58
35	-	-	1	5	25	12	2	2	3	1	-	-	51	16	67
36	-	-	-	3	15	7	2	1	1	-	-	_	29	9	3.8
37	-	-	1	4	7	7	8	2	-	-	-	-	29	13	42
38	-	-	-	1	8	7	2	-	1	-	-	~	19	10	29 24
39	-	-	-	2	7	10	1	1	-	_	_	-	20	4 6	17
40 41	_	_	-	1 -	3	2	2	1	1	_	_	-	7	5	12
								1	2		1		11	1	12
42	-	-	-	-		2 3	5 3	1 2	2	-	1 -	_	9	1	10
43 44	-	-	_	-	_	1	1	_	_	1	1	_	4	_	4
44	_	_	_	_	_	_	2	-	2	_	-	-	4	1	5
46	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1
47		_	_	_	_	_	_	_	_	_	-	-	-		-
48	_	_	_	-	-	-	1	-	-	-	-	-	1	-	1
49	-	-	_	-	-	-	-	-	1	`-	-	-	1	-	1
50 &								_	_		_	_	_	_	-
over	-	-	-	-	-	-	-	_	_						
Not Stated	_		-	_	1	-	-	-	-	-	-	1	2	1	3
Total															
Fathers	14	234	358	306	229	117	49	17	15	2	3	1	1,345	941	2, 286
-		<u></u>	1						4						

TABLE 26
LIVE BIRTHS OF REGISTERED INDIANS BY AGE OF PARENTS, ALBERTA, 1967

						AGE OF	FATHE	R					Total	Born	D
Age of Mother (years)	Under 20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 & over	Not Stated		to Un- married Mothers	Born to all Mothers
12 13 14	-	-	-	-	-	-	-	-	-	-	-	-	-	-1	1
15 16	-	- - 1	- 1	-	-	-	-	-	-	-	-	-	- 2	- 8 28	8 30
17 18 19 20 21	3 - 3 - 1	6 15 11 15 13	2 4 9 16 20	1 - 2 3	- - - 2 4	- - - -	1 - 1	- - - -		-	-	-	11 21 23 36 41	42 35 61 54 44	53 56 84 90 85
22 23 24 25 26	-	10 12 3 7 1	24 17 26 16 11	7 10 13 13 15	1 4 5 2 4	 - - 1	- - 1	-	- - - -	- - - -		-	42 43 47 39 32	46 37 29 23 21	88 80 76 62 53
27 28 29 30 31		1	16 6 7 2 1	11 15 16 10	2 6 9 11 11	1 2 3 5 4	- - 1	- - 3 1	- - - -	- - - -		- - - -	31 29 38 30 27	14 21 21 9 17	45 50 59 39 44
32 33 34 35 36		-	1 2 1 1	6 8 6 3 3	8 14 5 15 7	3 9 4 8 6	1 2 1 1	-	1 - 1 1	- - - -	-	-	19 34 19 29 17	10 3 13 8 6	29 37 32 37 23
37 38 39 40 41	-	-		1 1	5 7 7 3 1	1 4 9 4 1	2 1 1 -	2 - - 1 1	1 - - 1	- - - -		-	11 14 17 8 5	10 4 3 2 4	21 18 20 10 9
42 43 44 45 46		-		-	-	1 3 - -	4 3 1 1	-	2 1 - 1	- 1 -	1 - 1	- - - -	8 7 3 2	1 - - -	9 7 3 2
47 48 49 50 & over Not stated	-	-	-	-	-	-	-	-	-		-	- - 1	- 1 - - 1	- 1	1 - 2
Total Fathers	7	95	183	155	133	69	24	8	9	1	2	1	687	576	1, 263

TABLE 27 BIRTHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE, 1967

						Place o	Place of Residence	U							
	Total	Nfld.	P. E. I.	N. S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B. C.	Yukon	N. W. T.	U. S. A.	Other
Total Residence	371,396	12,844	2,047	14,312	12,353	101,471	127,509	17,180	17,993	30,691	32,899	385	1,210	450	52
Newfoundland Prince Edward Island Nova Scotia New Brunswick	12,789 2,054 14,331 12,586	12,762 4 29 5	2,020	3 8 14, 209 50	1 8 41 12, 207	23 8 8 8 8 8	12 4 4 17 17 18	LIMI	1-1-	- 1 6 2	- 1	1 1 1 1	- 1	61	7
Quebec Ontario Manitoba Saskatchewan	100, 281 128, 539 17, 533 17, 928	4.6 1.5	7 1 1 2	14	14	99,967	127,060 110 110	20 17,028 51	1 10 214 17,621	21 27 27 217	111	1	100	211 211 34 5	2,68
Alberta British Columbia Yukon Northwest Territories	30,691 32,943 400 1,054			- 9 - 1	, , ,	~ N 1 M	34	222	1111 24 1 2	30,313	32, 685 29	367	61 5 1,027	21 59	100
U.S.A.	267	1	1	5	23	66	06	28	7	3	11	1	1	ı	1

TABLE 28
LIVE BIRTHS AND LIVE BIRTHS IN HOSPITAL BY OCCURRENCE AND RESIDENCE
FOR CENSUS DIVISIONS AND INCORPORATED URBAN PLACES OF 1,000 POPULATION
AND OVER, ALBERTA, 1967

		TOTAL BI	RTHS		BIR	THS IN HOS	SPITAL	
	Total by occurrence	Total by residence	By occurrence; residence elsewhere	occurrence	Total by occurrence	Total by residence	By occurrence; residence elsewhere	By residence; occurrence elsewhere
Alberta	30,691	30,691	378	378	30,463	30,462	378	377
Division No. 1	604	628	43	67	600	624	43	67
Bow Island, t. Medicine Hat, c. Redcliffe, t. Other	36 565 - 3	14 396 34 184	28	6 23 34 181	36 564 - -	14 395 34 181	28 192 - -	6 23 34 181
Division No. 2	1,676	1,541	204	69	1,659	1,523	204	68
Brooks, t. Coaldale, t. Lethbridge, c. Picture Butte, t. Raymond, t. Taber, t. Other	194 58 930 17 52 256 169	83 36 627 6 27 105 657	121 32 333 16 32 166 56	10 10 30 5 7 15 544	194 58 930 17 52 256 152	83 36 627 6 27 105 639	121 32 333 16 32 166 56	10 10 30 5 7 15 543
Division No. 3	549	575	59	85	534	560	58	84
Cardston, t. Claresholm, t. Fort Macleod, t. Magrath, t. Pincher Creek, t. Other	100 66 109 41 122 111	55 35 35 14 59 377	66 36 79 28 72	21 5 5 1 9 278	99 66 108 41 122 98	54 35 35 14 59 363	66 36 78 28 72	21 5 5 1 9 277
Division No. 4	244	275	29	60	236	267	29	60
Hanna, t. Other	110 134	45 230	65	107	110 126	45 222	65 11	107
Division No.5	340	650	19	329	339	649	19	329
Drumheller, c. Three Hills, t. Vulcan, t. Other	148 78 49 65	73 34 25 518	86 <b>4</b> 9 36 8	11 5 12 461	148 78 49 64	73 34 25 517	86 49 36 8	11 5 12 461
Division No. 6	8,508	8,112	547	151	8,484	8,089	546	151
Calgary, c. Didsbury, t. High River, t. Olds, t. Other	8,087 100 166 137 18	7,418 37 36 62 559	796 70 135 87 2	127 7 5 12 543	8,074 100 164 137	7,405 37 36 62 549	796 70 133 87 1	127 7 5 12 541
Division No. 7	644	686	67	109	632	674	67	109
Castor, t. Provost, t. Stettler, t. Wainwright, t. Other	80 99 127 122 216	14 19 72 82 4 <b>9</b> 9	68 82 64 46 32	2 2 9 6 315	79 99 127 122 205	14 19 72 82 487	67 82 64 46 32	2 2 9 6 314
Division No. 8	1,381	1,531	80	230	1,377	1,525	80	228
Innisfail, t. Lacombe, t. Ponoka, t. Red Deer, c. Rimbey, t. Rocky Mtn. House, t. Sylvan Lake, t. Other	151 144 131 667 76 122	53 62 91 497 35 91 24 678	105 87 56 194 51 54 - 20	7 5 16 24 10 23 24 608	151 144 131 667 76 121	53 62 91 497 35 89 24	105 87 56 194 51 54 -	7 5 16 24 10 22 24 607

TABLE 28

LIVE BIRTHS AND LIVE BIRTHS IN HOSPITAL BY OCCURRENCE AND RESIDENCE FOR CENSUS DIVISIONS AND INCORPORATED URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1967

		TOTAL	BIRTHS			BIRTHS IN	HOSPITAL	
	Total by occurrence	Total by residence	By occurrence; residence elsewhere	occurrence		Total by residence	By occurrence; residence elsewhere	By residence; occurrence elsewhere
Division No. 9	250	306	40	96	247	303	39	95
Bellevue, vl. Blairmore, t. Canmore, vl. Coleman, t. Other	1 2 11 4 232	15 29 11 33 218	- 1 4 - 93	1 4 28 4 29 79	1 2 11 4 229	15 29 11 33 215	- 1 4 - 92	14 28 4 29 78
Division No. 10	916	1,094	111	289	913	1,091	111	289
Camrose, c. Lloydminster, c. (pt.) Two Hills, t. Vegreville, t. Vermilion, t. Viking, t. Other	286 - 26 143 114 68 279	155 87 13 59 49 17 714	142 - 17 91 74 55 43	11 87 4 7 9 4 478	286 	155 87 13 59 49 17	142 17 91 74 55 43	11 87 4 7 9 4
Division No. 11	11,316	10,469	1,028	181	11,285	10,442	1,023	180
Devon, t. Drayton Valley, t. Edmonton, c. Fort Saskatchewan, t. Leduc, t. St. Albert, t. Stony Plain, t. Wetaskiwin, c. Other	242 10,428 88 109 1 77 336 35	13 104 8,726 76 43 220 29 117 1,141	143 1,847 37 82 - 61 234	13 5 145 25 16 219 13 15	242 10,417 86 109 1 77 334	13 104 8,719 75 43 220 29 117 1,122	143 1,843 35 82 - 61 232	13 5 145 24 16 219 13 15 1,103
Division No. 12	1,222	1,320	67	165	1,210	1,307	67	164
Bonnyville, t. Cold Lake, t. Fort McMurray, t. Grand Centre, t. Lac La Biche, t. St. Paul, t. Other	126 158 187 - 169 254 328	64 44 138 61 58 99 856	72 122 66 - 122 168 59	10 8 17 61 11 13 587	125 158 187 - 169 254 317	64 44 138 61 58 99 843	71 122 66 - 122 168 59	10 8 17 61 11 13 585
Division No. 13	662	790	91	219	652	780	89	217
Athabasca, t. Barrhead, t. Redwater, t. Westlock, t. Other	147 199 - 215 101	33 52 16 63 626	120 152 - 162 19	6 5 16 10 544	147 199 - 214 92	33 52 15 63 617	120 152 - 161 17	6 5 15 10 542
Division No.14	382	486	22	126	372	474	22	124
Edson, t. Hinton, t. Whitecourt, t. Other	146 154 73 9	111 129 55 191	70 33 33 -	35 8 15 182	146 153 73	111 128 55 180	70 33 33	35 8 15 180
Division No. 15	1,997	2,228	35	266	1,923	2,154	34	265
Beaverlodge, t. Fairview, t. Grande Prairie, c. Grimshaw, t. High Prairie, t. Manning, t. McLennan, t. Peace River, t. Slave Lake, t. Spirit River, t. Swan Hills, t. Valleyview, t. Other	23 137 460 	12 47 281 55 69 15 19 153 30 13 8 44	15 103 194 - 213 41 57 180 - 45 - 50 26	4 13 15 55 4 2 - 16 28 2 8 14 994	23 137 460 - 278 52 76 316 - 56 - 79 446	12 47 281 55 69 14 19 152 28 13 8 44 1,412	15 103 194 - 213 40 57 179 - 45 - 49 24	4 13 15 55 4 2 15 28 2 8 14 990

### TABLE 29 LIVE BIRTHS BY MONTHS IN ALBERTA, 1967

	Total	January	February	March	April	May	June	July	August	September	October	November	December
Province of Alberta Male	30,691 15,682										2,540 1,284		
Female	15,009	1,236	1,114	1,345	1,320	1,345	1,232	1,292	1,241	1,347	1,256	1,122	1,159

TABLE 30 LIVE BIRTHS FOR CENSUS DIVISIONS AND INCORPORATED URBAN PLACES OF 1,000 POPULATION AND OVER BY TYPE OF ATTENDANCE FOR ALBERTA, 1967

				Attended by	
	Total	Physician	Nurse	Midwife	Unattended and N. S.
Alberta	30,691	30,450	84	66	91
Division No. 1	628	625	_	3	
Bow Island, t. Medicine Hat, c. Redcliffe, t. Other	14 396 34 184	14 396 34 181	- - -	3	
Division No. 2	1,541	1,526	_	11	4
Brooks, t. Coaldale, t. Lethbridge, c. Picture Butte, t. Raymond, t. Taber, t. Other	83 36 627 6 27 105 657	83 36 627 6 27 105 642	-	- - - - - 11	- - - - - 4
Division No. 3	575	564	-	8	3
Cardston, t. Claresholm, t. Fort Macleod, t. Magrath, t. Pincher Creek, t. Other	55 35 35 14 59 377	55 35 35 14 59 366	- - - - -	- - - - 8	- - - - - 3
Division No. 4	275	268	-	6	1
Hanna, t. Other	45 230	45 223	- -	6	- 1
Division No. 5	650	635	14	_	1
Orumheller, c. Three Hills, t. Vulcan, t. Other	73 34 25 518	73 34 25 503	- - 14	- - -	1
Division No. 6	8,112	8,104	-	3	5
Calgary, c. Didsbury, t. High River, t. Dids, t. Other	7,418 37 36 62 559	7,417 37 36 62 552	- - - - -	- - - 3	1 - - - 4
Division No. 7	686	676	-	5	5
Castor, t. Provost, t. Stettler, t. Vainwright, t. Other	14 19 72 82 499	14 19 72 82 489	- - -	- - - - 5	- - - - 5
Division No. 8	1,531	1,526	-	4	1
nnisfail, t. Lacombe, t. Ponoka, t. Red Deer, c. Limbey, t. Locky Mtn. House, t. Jylvan Lake, t.	53 62 91 497 35 91 24 678	53 62 91 497 35 89 24 675	-	2 - 2	

TABLE 30 LIVE BIRTHS FOR CENSUS DIVISIONS AND INCORPORATED URBAN PLACES OF 1,000 POPULATION AND OVER BY TYPE OF ATTENDANCE FOR ALBERTA, 1967

	Total	Attended by			
		Physician	Nurse	Midwife	Unattended and N. S.
Division No. 9	306	305	-	-	1
Bellevue, vl.	15	15	_	_	_
Blairmore, t.	29	29	_	_	_
Canmore, vl.	11	11	_	-	_
Coleman, t.	33	33	-	-	-
Other	218	217	-	-	1
Division No. 10	1,094	1,093	-	-	1
Camrose, c.	155	155	_	_	_
Lloydminster, c. (pt.)	87	87	-	-	-
Swo Hills, t.	13	13	-	-	-
Vegreville, t.	59	59	-	-	-
Vermilion, t.	49	49	-	-	-
Viking, t.	17	17	-	-	
Other	714	713	-	-	1
Division No. 11	10,469	10,448	1	5	15
Devon, t.	13	13	_	-	_
Prayton Valley, t.	104	104	-	-	-
Edmonton, c.	8,726	8,722	l	-	3
Fort Saskatchewan, t.	76	75	-	-	1
Leduc, t.	43	43	-	-	-
t. Albert, t.	220	220	-	-	-
Stony Plain, t.	29	29	-	-	-
Vetaskiwin, c. Other	117	117 1,125	-	5	11
Division No. 12	1,320	1,306	5	1	8
Bonnyville, t.	64	64	_	_	_
Cold Lake, t.	44	44	_	_	_
Fort McMurray, t.	138	138	-	_	_
Grand Centre, t.	61	61	_	_	_
Lac La Biche, t.	58	58	_	-	_
St. Paul, t.	99	99	-	-	-
Other	856	842	5	1	8
Division No. 13	790	780	4	3	3
Athabasca, t.	33	33			
Barrhead, t.	52	52		_	_
Redwater, t.	16	16	_	_	_
Westlock, t.	63	63	_	_	-
Other	626	616	4	3	3
Division No. 14	486	474	-	5	7
Edson, t.	111	111	_	-	-
Hinton, t.	129	128	-	60	1
Whitecourt, t.	55	55	-	-	-
Other	191	180	-	5	6
Division No. 15	2,228	2,120	60	12	36
Beaverlodge, t.	12	12	-	-	-
Fairview, t.	47	47	-	-	-
Grande Prairie, c.	281	281	-	-	-
Grimshaw, t.	55	55	-	-	-
ligh Prairie, t.	69	69	-		
Manning, t.	15	15			
McLennan, t. Peace River, t.	19 153	19 153			
Slave Lake, t.	30	28			2
Spirit River, t.	13	13			-
Swan Hills, t.	8	8			
Valleyview, t.	44	44	_	-	_
Other	1,482	1,376	60	12	34

TABLE 31 LIVE BIRTHS BY AGE OF PARENTS, ALBERTA, 1967

Age of mother	(8)								and	over Not stated	Total
Under	×	1111	25 58 69 61 20	200	) et [ ] [	1 1 ( 1 1		1 1 1 1	1 1 1 1	1 1	248
1 2	[14	) ) ) (M	23 882 865 866 876	8-2-1	1 ( ( )	11111	1 1 1 1 1		1 1 1 1	1	266
20	×	2 - 1 - 2	32 131 285 488 628	489 389 288 155 72	36 23 8 8 1	2 1 4 4 4					3.038
2	[H	1114	39 119 297 442 548	477 368 254 142 69	15 15 4	7 7 7 7					3 2,829
2	M		14 68 133 133 245	331 432 581 626 585	425 311 213 120 120	232					9 4. 262
25 - 29	F	11118	44 17 8 130 33 130 220	1 327 2 409 1 568 6 601 5 529	5 468 3 244 0 121 3 69	35 28 28 2 16 16 1	11.53	1 1 1 1 1	1 1 1 1	4 1	2 4 171
		11116				50 23 1.16 1.16 1.16 1.16 1.16 1.16 1.16 1.1	W 44 4 1 1		1111	1	
0 - 3	M	1111	1 4 5 2 4 4 5 8 5 4 5 8 5 8 5 8 5 8 5 8 5 8 5 8	73 1115 1142 1188 1188 1188	279 26 312 2 295 30 329 2 285 26	267 23 175 16 140 11 52	288	2	1 1 1 1	1	
	M	1 1 1 1 1	2 1 15 44 44	72 95 90 82	267 275 308 278 1 263	228 165 130 100 146	36 14 7	2	( 1 1 1		720 1
35 - 39	H	1 1 1 1 1	13 2 3 1 1 3 1 3 3 1 1 3 1 3 1 3 1 3 1 3	17 18 29 28 56	71 89 78 119 117	63 1 62 1 75 1 70 1	35 1 97 77 18	. 1.2.4.8	1 1 1 1	1 1	
lamer	M	1 1 1 1 1	1255	13 22 35 449 1	69 1 85 1 89 1 119 2 125 3	666 559 858 85 77	117 88 67 87 47 54	10 4 4 4 4 2 2 2 2 2 1 1 2 2	1 1 1 1		
40 - 44	H.	1 1 1 1 1	-2-62	28241	12 11 12 16 13 18 20 22 37 32	31 27 56 42 60 49 59 65 73 66	80 54 69 83 84 77 69 69 50 43	36 42 25 21 22 17 12 9		1 1	-
45	M	1 1 1 1 1	2 4 7 1 1	2 2 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	100 100 17	35 35 30 30 25	23 26 26 14	w 5/1 1	1 1	
- 49	íų.	1 1 1 1 1	11010	12114	C 4 4 4 0	7 6 6 13 17	24 33 30 20 20 31	23 23 15 17 17	2 - 2 -	1 1	
50	Z	1 1 1 1 1	1 1 1 1 1	11001	7 - 8 - 8 - 8 - 9 - 9	21945	9 2 7 9 1 0 1 0 1 0 1 0 1	11000	2	1 1	
- 54	[14	1 1 1 1 1		11-	2 - 1 - 2	8 - 1 - 3	49 1 2 8	12 4 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1 1	1 1	
55 -	Z	1 1 1 1 1	1 1 1 1 1	1 1 1 1	1 - 1 1 1 1	19	- 148-	4-2	1,111	1 1	
59 (6	[24	1 1 1 1 1	1 1 1 1 1	1111-		1 17 - 1	2 - 2 2 4	22-25	- 2	1 1	
60 - 64	M	1 1 1 1 1		1 1 1 1	1 1 1 1 1		11151			1 1	
	F				1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1	1 1 1 = 1	- ( ) )	1 1	
65 and over	H	1 1 1 1 1		1 1 1 1 1	11111		111-1	13 111	1 1 1 1	1 )	
not	Z	1 1 1 1 1	The state of	1 1 1 1 1	1-1-1		1 1 1 1 1	1 1 1 1 1	1 1 1 1		
	ín	1 1 1 ( )	1 1 1 mm 1			1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1		
Total Born to married mothers	×	11100	62 210 432 715 952	965 1,052 1,003 1,939	827 752 616 602 520	508 431 409 353	283 231 208 161 106	71 67 69 35	9411		
o	Ĺ	1 1 1 100	67 203 453 667 853	901 902 1,013 992 849	853 697 674 550 506	484 401 360 333 330	241 241 195 153 106	88 62 445 20 20	5505	1 %	
Born to unmarried mothers	×	3 8 8 1 1	86 167 201 209 221	116 96 84 63	54 43 34 20	33 26 15 17	19 7 2 7 2 7 2	NW4 1W	1 1 1 1		
to rried ers	T	33211	78 130 208 217 209	153 106 89 65 64	37 24 40 23	31 18 18 25 19	113	L 70 1	~ 1 ~ 1		
Born to all mothers	Z	1 - 1 6 6 4	148 377 633 924 1,173	1,076 1,081 1,148 1,087 1,002	881 795 665 636 540	541 457 424 367 348	290 250 216 168 108	76 70 73 35 20	9 4 - 1	1 2	
to	Í	1 1 1 6 24	145 333 .661 884 1,062	1,054 1,008 1,102 1,057 913	890 734 698 590 529	515 419 378 358 349	255 252 208 161 116	95 67 46 41 20	90000	1 10	

Table 32 Live births by age of mother and total birth order, alberta, 1967

	Not	[24	1111		11111		1 1 1 1 1		4 1 1 1 1	111	1	-	
-		Fl M	(	1 1 1 1 1	1 1 1 1 1			1 1 1 1 1	1 1 1 1 1	1 1 1	1		
	25th	M		1 1 1 1 1	1 1 1 1 1		1 1 1 1 1	1 1 1 1 1	3 1 1 1 1	1 1 1	1	,	1
	th	[z <sub>i</sub>	11111	1 1 1 1 1	1111	11111	1 1 1 1 1	1 1 ( )	1 1 1 1 1	1 1 1	t	1	
	24th	×	1111	1 1 1 1 1				1 1 1 1 1	1 1 1 1 1	1 1 1	1	- 1	1
	23rd	M	1 1 1 1 1			1 1 1 1 1	11111	1 1 1 1 1	1 ( ) ( (	1 1 1	-		1
-		Li Li	1 1 1 1 1	11111	1111	1111	1 1 1 1 1	1 1 1 1 1	11111	1.1.1	-	-	
	22nd	Z	1 1 1 1	F 1 1 1 1		1 1 1 1 1	1 1 1 1 1	1 ( 1 1 1	1 1 1 1 1	1 1 1	1	1	- 1
ŀ	18	[x <sub>i</sub>	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 ( 1 1 1	1 1 1 1 1	1 1 1	1	1	1
-	21	Σ	1 1 1 1 1	1 1 1 1 1	1 ( ) ( )	1 1 1 1 1		1 1 1 1 1	1 1 1 1 ~	) I I	1	1	-
1	20th	M	1 1 1 1 1	1 1 1 1 1		11111			11111	1 1 1	-	1	1
-		[24	1 1 1 1 1	1 1 1 1 1	11111	1 1 1 1 1		11111	1 1 1 1 1	1 1 1	1	1	,
	19th	Z	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1		1 1 1 1 1	1 1 1	1	1	'
ı	18th	Ís,	1 1 1 1 1	1 1 1 1 1		1 1 1 1 1		1 1 1 1 1	1 1 1 1 1	1 1 1	1	1	1
-		F	11111	1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1		10011		1 1 1	1	1	2 3
-	17th	Σ	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1		1 1 - 1 1	1-11-	1.1.1	1	- 1	т.
	16 th	Í4	1 1 1 1 1	1 1 1 1 1	1 1 1 1 3	1 1 1 1 1		1 10 10	1 - 1 - 1	1 1 1	,	1	2
		Σ	1 1 1 1 1	1 1 1 1 1		1 1 1 1 1	11161	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2 1 1	1 1 1	1	1	7 5
	15th	M	1 1 1 1 1	1 1 1 1 1			1	11211	2 1 2 1	( ) )	-		7
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	13 th	[ht	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 - 1 1	2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 - 2 - 4	2 2 3 3		1	1	22
-		FI	1 1 1 1 1			1 1 1 2 2	-523-	97124	1 5 3 - 3	7.7.1	<u>.</u>	-	42 25
	12th	Z	1 1 1 1 1	1 1 1 1 1		111-11	- 2 - 2 4	W 44 44 1	1 5 2 3 1		1	t	33 4
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child	10th	M		1 1 1 1 1	11116	1 1 1 1 2	60000	912881	44 C Z -	1 1 1	-	1	72 92
Jo-		ĮH	1 1 1 1 1	1 1 1 1 1	1 1 1 2	4 2 2 5 0	9 6 1 6 1 1	04914	4 - 6 2 -	1 1 1	- (	1	27 7
of birth	9th	M		1 1 1 1 1	11110	14040	8 6 8 1 5	0 6 4 9	W 44 W 1 1	~ 1 1	-	1	130 15
r of		Es	1111	1 1 1 1 1	11104	8 8 8 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	20 1 13 1 16 1	16 1	40011	1 1 1	- (	1	
Order	8th		1111	1 1 1 1 1	140	4 5 11 1 4	16 12 20 17 17 13 13	100 1	122887	1 1	-	- 1	6 188
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ĺ	7th	ĮĮ,	(	1 ( ) 1 1			20 23 7 28 7 28 7 28 9 31 9	2 14 28 14 10 10 11 11 11 11 11	2 - 4 - 1	1.1.1	-	1	335
-		Z			- 2 4 6 0	114	23 20 17 20 20 18	24 112 127 7 7	10250			-	293
	6th	14	1 1 1 1 1		3 17 12 25	23 36 30 48	35	16 20 20 16 16 10	90000	011		1	514
	9	Z	1 1 1 1 1	(	144 15 20	40 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3.5 3.8 3.8 2.9	29 19 18 19 10	1 2296	~ 1 m	'	'	919
	~	Íч		11116	17 18 36 38 44	50 50 50 50 50 50	74 00 74 74 74	37 32 28 28 18	-30000	1	'		820
	5th	×		1 1 9 9	111 19 30 43 50	65 63 69 58	54 71 78 56 49	37 37 37 13	86641	~ ! !	1	4	922
		[z <sub>i</sub>	11111	20 20 37	54 74 94 115	1111 125 104 92 92	91 86 68 51 41	38 37 29 18 10	2 5 5	- 1 1	1	1	545
1	4th		1 1 1 1 1	1 2 2 2 8 2	37 54 123 116 121	34 01 02 02 22	005 884 644 52	250 21 21 11	7.385	F + 1		- 1	~
		Z				2222	2						1,635
ľ			1 ( 1 1 1	3 36 73 109	156 203 213 188 186	163 177 146 136	00 72 66 55 40	288 198 115 111	1-030-1	1 1 1	1		969
1	3rd	ja,											2,395
	ę,	Z	1111~	5 13 45 81 134	154 218 198 226 215	196 193 164 125 119	108 85 85 69 69	34 23 15 9	10 4 2 6 1	1 1 1	1	-	265
+			1111	32 116 200 329 382	388 421 367 317 299	241 178 129 114 89	64 74 74 74 74 74 74 74 74 74 74 74 74 74	30 11 11 8	49111	111	1	1	3,941 2,597
	net.	(x <sub>4</sub>		- 26.66	w 4 w w v	2000							3,9,
	2nd	M	13	37 1116 2225 368 358	409 442 404 323 268	232 156 131 126 93	73 44 30 26	19 26 15 13	0001	1 1 1	1		800
-			1 3 45 138		390 373 323 236 187	106 106 106 1089 1089	30 23 27 14	111	1 - 1 3 5	1 1 1	1	1	4,913 4,008
		Щ	4.61	298 530 644 639 515	35, 37, 37, 37, 37, 37, 37, 37, 37, 37, 37	10 10 88 8	60011	H H					4,91
	lst	¥	1 48 134	334 500 651 702 550	464 406 314 265 187	24 99 84 53	39 35 24 22 18	1 8 8 7 7 7 7	1 1 1 3 5		1	,	
		X						01.00 0.15	D-0	10.00.01	,	-	9 5,156
		Fem,	1 45 145	333 661 884 ,062	1,008 1,102 1,057 913 890	734 698 590 529 515	419 378 358 349 255	252 208 161 116 95	67 46 41 20 20 6	10 10 101		3	15,009
	Total	E4	1 9 148	5 4 5 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		10000	7 4 7 8 0	250 216 168 108 76	773 250 200	4	1	2	12 15
	To	Male	44	377 633 924 1,173 1,076	1,081 1,148 1,087 1,002 1,881	795 665 636 540 541	457 424 367 348 290	223	1-1-W N				15,682
		2											1
	jo	rs)								τ		v	-
	18e	Mother (years)	112 113 114 115	117 118 119 220 221	22 23 24 25 26	27 28 29 30 31	33.4 35.5 36.5 36.5 36.5 36.5 37.5 37.5 37.5 37.5 37.5 37.5 37.5 37	33 33 34 41	2 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	47 48 49 50 and	ver	not stated	Total
	4	2-		N	141414141	14 14 14 EV EV	4144444	er er er er er	य य य य य	4 44 A1 TC	0	C 03	1

TABLE 33
MULTIPLE BIRTHS BY AGE OF MOTHER, ALBERTA, 1967

		ТОТ	AL CHI	LDREN	1	S	SINGLE			SET	SOF	WINS			S OF LETS
	Total			Still	lborn		Still	born			eborn lborn	Bo Still			iveborn illborn
Age of Mother	Confine- ments	Total	Live- born	20-27 weeks	28 + weeks	Live- born	20-27 weeks	28 + weeks	Both Live- born	20-27 weeks	28 + weeks	20-27 weeks	28 + weeks	20-27 weeks	28 + weeks
Total	30,721	31,041	30,691	64	286	30,076	61	265	299	3	12	_	4	_	1
12 13 14 15	1 2 13 94 297	1 2 13 94 299	1 2 12 94 293	1	- 1 - 5	1 2 12 94 291	- - - 1	- 1 - 3	- - - 1		-	-	- - - - 1	-	- - -
17 18 19 20 21	715 1,299 1,809 2,236 2,137	717 1,308 1,821 2,254 2,159	710 1,294 1,808 2,235 2,130	2 - 2 4 1	5 14 11 15 28	706 1,278 1,786 2,202 2,088	2 - 2 3 1	5 12 9 13 26	2 7 11 15 21	- - 1	2 - 2 -	-	- 1 - 1	-	-
22 23 24 25 26	2,086 2,244 2,142 1,926 1,769	2,106 2,267 2,161 1,940 1,791	2,089 2,250 2,144 1,915 1,771	4 5 4 5 6	13 12 13 20 14	2,050 2,204 2,106 1,887 1,730	4 5 4 5 6	12 12 13 20 11	19 23 19 14	-	1 3	- - - -	-	-	
27 28 29 30 31	1,535 1,355 1,222 1,068 1,044	1,543 1,375 1,238 1,080 1,060	1,529 1,363 1,226 1,069 1,056	2 3 1 2 1	12 9 11 9 3	1,513 1,326 1,194 1,045 1,024	2 2 1 2	12 7 11 9 3	8 18 16 12 16	ī 1 - -	-	- - - -	1 - -	-	-
32 33 34 35 36	871 800 724 694 552	886 810 737 710 555	876 802 725 697 545	1 1 4 2 3	9 7 8 11 7	846 783 701 666 539	1 1 4 2 3	9 6 7 10 7	15 9 11 15 3	-	1 - 1	-	-	-	- 1 -
37 38 39 40 41	501 432 329 234 176	511 438 334 235 177	502 424 329 224 171	2 1 1 3 2	7 13 4 8 4	482 412 320 222 169	2 1 1 3 2	7 13 3 8 4	10 6 4 1	-	- 1 - -	-	-		-
42 43 44 45 46	141 119 77 42 14	142 120 80 42 14	137 119 76 40 12	1	4 1 4 2 2	136 117 71 40 12	-	4 1 3 2 2	1 2 -	1	1 -	- - - -	-	- - - -	- - - -
47 48 49 50 and	9 4 3	9 4 3	9 4 3	- - -	- - -	9 4 3	-		60 66	- - -	-	- - -	-	-	-
Not stated	5	5	- 5	-	-	5	-	-	-	-	-	-	-	-	-

## DIVISION OF VITAL STATISTICS

TABLE 34
LIVE BIRTHS BY PERIOD OF GESTATION AND BIRTHWEIGHT, ALBERTA, 1967

													Pe	rio	d of	ge	stat	ion	(we	eks	s)										
Birthweight (grams)	Total	Under 16 weeks	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43+	Not stated
			_					-							MA	LE	S						,			1					
Total	15,682	-	-	2	-	1	1	2	10	7	17	13	22	16	35	23	33	32	82	63	104	169	434	638	1,531	2,313	7,249	1,690	964	218	13
500 or less 501- 750 751-1000 1001-1250 1251-1500	10 36 32 51 58			1	-	1	1	1	4 4 2 -	1 3 2 1	1 6 5 -	- 8 - 2 1	- 2 7 8 3	1 4 6 1	2 4 11 9	3 1 5 9	3 2 6 7	1 1 2 7	1 1 6	- - 1 5	1 1 1 1 1	1 - 2	- 1 1 4	2	-	-	1	1		1	1 -
1501-1750 1751-2000 2001-2250 2251-2500 2501-2750	94 139 267 497 983	- - - -			1 1 1 1						11111	1 1 -	2	1 1	4 2 1 -	2 1 1 1 -	10 - 2 1 2	9 6 1 1 -	20 19 21 7 2	10 16 16 8 2	12 .14 23 26 17	8 12 36 34 35	8 16 50 84 89	1 11 23 78 110	1 15 35 86 190	2 8 20 51 169	3 11 29 92 295	5 4 18 38	1 2 6 26	- - 4 6	1 1 2
2751-3000 3001-3250 3251-3500 3 <b>50</b> 1-3750 3751-4000	1,680 2,760 3,247 2,642 1,701	- - - -				-	-	-			1 1 1 1	1 1 1 1		1	- 1 - -			2 2	1 3 - -	1 1 1	7 3 1 -	14 16 7 1	64 58 30 16 4	126 122 90 50 18	297 338 285 173 66	303 521 544 379 201	680 1,271 1,702 1,408 929	109 257 377 352 278	63 135 174 219 160	11 30 35 42 43	1 3 - 1 -
4001-4250 4251-4500 4501-4750 4751-5000 5001-5250	867 351 158 70 12	-			-	-	-	-			1 1 1 1 1	1 1 1 1							11111		- - 1	2	2 3 3	4 1 2 -	30 7 2 3	74 19 12 7 1	480 202 86 37 9	148 64 26 10	102 44 21 9	24 11 6 3 1	1
5251-5500 5501-5750 5751-6000 6001-6250 6251-6500	4 1 3 -	-			1 1 1 1						1 1 1 1	11111			1 1 1 1						11111				1	-	2 1 - -	1 -	2 -	1	
6501 + Not stated	19	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	- 2	2	10	ī	-	-	1
Total	15,009		2	_	1	_	9	3	8	3	11	9	19		26	1AL		25	59	51	103	118	380	556	1 366	2 073	7,227	1 723	945	227	4
500 or less 501- 750 751-1000 1001-1250 1251-1500	11 34 31 38 55		1		1	-	3 4 2 -	2 1	3 3 1 1	1 1	- 6 2 2	7 1 1 -	- 7 5 4 2	- - 4 1	1 2 10 6 3	- 1 6 4	- 2 1 3	- 1 4 5	- - - 3 11	- - 1 2	- - 1 4	- - 2 4	2 2 2 2	- - 1 2	-	2	-				-
1501-1750 1751-2000 2001-2250 2251-2500 2501-2750	79 156 272 683 1,389	- - - -				-		1 1 1 1 1					- 1 -		1 2 1 -	2 - 1 - 1	13 2 5 1	5 4 2 2	8 17 11 5 3	15 9 11 5 5	7 25 21 17	6 14 24 21 18	7 24 50 88 73	3 18 37 73 118	3 15 34 119 219	2 8 23 103 271	7 14 41 194 526	3 7 25 85	3 22 50	- - 7 7	1 - 1
2751-3000 3001-3250 3251-3500 3501-3750 3751-4000	2,160 3,077 2,912 2,161 1,150				-			1 1 1 1 1							-		-	- 1 - -	- 1 - -	1 1	7 1 5 1	11 12 4 2	48 32 18 16	106 100 51 25 13	287 333 197 99 42	479	1,012 1,561 1,596 1,209 624	169 349 406 351 191	102 158 205 175 121	23 49 39 44 33	- 1 - -
4001-4250 4251-4500 4501-4750 4751-5000 5001-5250	487 167 79 24 10	-			1 1 1 1	1 1 1 1	11111	1 1 1 1			1 1 1 1								1 1 1 1		1		4 2	2 4 2 -	10 3 2 2	31 8 5 -	269 96 43 11 4	94 21 11 8 1	65 24 12 3 3	12 8 4 -	-
5251-5500 5501-5750 5751-6000 6001-6250 6251-6500	5 - - 1	-			1 1 1 1		1 1 1 1 1	11111															-		-		3 -	1 - 1 -			-
6500 + Not stated	28	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	- 1	1	ī	3	- 17	-	1	-	- 1

TABLE 35 LIVE BIRTHS BY AGE OF MOTHER AND BIRTHWEIGHT, ALBERTA, 1967

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	+ 5 +		32	1 1 1 6 3	1 1 1 1 4	W 0 4 0 U	2	1 t t t t	1 1
	44		3.5	) 1 1 1	1 - 2 - 6	40000	72 - 1 - 1	1 1 1 1 1	1 1
	2 43	-	73	1 1 1 2	1 1 - 6 2	10 12 12 11 8	42221	1 1 1 1 1	1 1
	4	-	02 0	1 - 1 - 1 -	7777	3 20 13 8	98111	1 1 1 1 1	- ' '
	4		3 76		1 1 4 70	7 12 15 10	L W 1 1 1	1 1 1 1 1	- ' '
	40		108	1 1 1 1	10114	13 13 17 19 15	0 4 5 7 1	1 1 1 1	1 1
	39		168	1 = 1 1 1	1 4 4 5 1 3 2	18 31 21 36 14	127	1 1 ( 1 1	1 1
	38		216	1 1 1	2 - 7 - 111	24 32 33 33 33	13	1 1 1 3	. —
	37		250	1 17 17	12	25 40 45 32	26 8 3 1	1 1 1 1 1	1 1
	36		290	1 1 1	12000	22 38 64 49 33	28 12 5 5	1 1 1 1 1	( )
	35		348	1 1 2	1 8 12 22	37 51 66 50 50	29 13 5	- 1- 1 1	1 1
	3.4		367	2 1 1 1 1	3 6 12 20	37 63 59 37	30	- 1 1 1 1	1 1
	33		424	1 1 1 1	5 10 10 29	45 56 90 74 51	30 7 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	( 1 1 3 1	1 1
	32		457	- 1 1	1 8 13 25	51 64 101 64 60	25 21 10 4	1 1 1 1 1	1 1
	31		541	1 - 1 - 1 - 4	1 9 19 27	52 102 91 85 63	21 2 2	1 1 1 1 1	2 .
14	30		540	1 1 -	3 6 113 10 37	53 96 102 108 57	28 10 10 2	1 1 1 1 1	
Mother	29	SS	636	1811	1 8 8 19 43	68 105 139 109 76	30	1 1 1 +	1 —
jo	28	MALES	999	14 126	38 38	71 1115 133 118 65	13	1 1 1 3 1	- 2
Age	27	2	262	- 2 - 1 - 2	8 4 4 8 8 4 8 8 9 4 8 8 9 8 9 8 9 8 9 8	81 131 173 140 107	26 29 26 2	1 1 1 1 1	1 1
	26		881	81189	6 12 22 49	110 145 174 158	23 23 2 23 2 2 3 2 3 2 3 2 3 2 3 2 3 2	- 1 - 1 1	1
	25		1,002	11140	2 15 24 69	100 184 225 170 119	119	1-1-1-1-1	
	24		1,087	2 - 1 - 6 4	6 8 15 35 70	1112 194 205 200 132	63	1 1 1 1 1	1 10
	23		1,148	12142	388	127 210 240 208 114	23	1 1 1 1 1	'
	22		1,081	53131	12 17 17 70	105 203 249 202 85	53	t f f t j	1 ~
	2.1		920	0388	111 233 368 688	126 201 239 159 121	42 16 9 1	1 1 1 1	1 pr-1
	20		,173 1,	14691	9 111 27 50 79	146 234 246 168 113	50 17	1 1 1 1 1	1
	19		924 1,	21825	62 62 62	103 176 214 147 84	133	1 1 1 1 1	1 3
	18		633	0 0 0 0 0 1	9 10 18 27 43	120 126 100 69	30 320		1 (
	17		377 6	53351	1 4 17 28	64 64 64 36	11 2 2 -	1 1 3 1 1	proof
	91		148 3	12222	78831	16 30 39 21 14	m 2 1 1 1 1	1 1 1 1 1	
	5		49 1	1 1 + 1	2 1 1 8 4	27649	12111	1 1 1 1 1	1 1
	14		9	1 1 1 1 1	1 1 - 1 -	12-21		T 1 1 1 1	1 1
	13		<u> </u>	1 1 1 1 1	( 1 1 1 1 1		1 1 1 1 1	1 1 1 1 1	1 1
	12		1	1 ( ( 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1
	otal		5,682	36 32 32 51 58	94 139 267 497 983	1,680 2,760 3,247 2,642 1,701	867 351 158 70 12	4-61	19
			-	Ø (n					
	Birthweight (grams)		al	500 or less 501- 750 751-1000 1001-1250 1251-1500	1501-1750 1751-2000 2001-2250 2251-2500 2501-2750	2751-3000 3001-3250 3251-3500 3501-3750 3751-4000	4001-4250 4251-4500 4501-4750 4751-5000 5001-5250	5251-5500 5501-5750 5751-6000 6001-6250 6251-6500	stated
	Birt.		Tota	500 501 751 1000 1253	150 175 200 225 225 250	275 300 325 350 375	400 425 450 475 500	525 550 575 625	6501 + Not sta

		Not stated		23	1 1 1 1 1	1 1 1 1 1	18111		1 3 1 1 1	ı ,
		5+		36	1 1 1 1	111~4	1 0 0 0 1 1	4 1 - 1 1	1 1 1 1 1	1 1
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		43		46	111-1	16 1-15	299114	8 1- 1 1	1 1 1 1 1	1 1
		42		63	1 ( 1 ) 1	12221	111 88 69	4	1 1 1 1 1	1 1
		41		96	1 1 1 1 1	1440	10 10 22 18 12	24-22		1 1
		40		116	1 - 1 1 1	02111	111 27 29 14 11	41211		
		39		161	16.116	18842	19 28 24 30 22	95121	1 1 1 1	' '
		38		208	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	20 40 35 40 16	13	1 1 1 1 1	1
		37		252	18118	- 9 8 8 2 1 2 9	33 31 43 40 35	11 10 2	1 1 1 1	1 1
		36		255		18	31 449 440 440 33	13	1 1 1 1	1
		35		349	81118	36	38 61 55 39	15		1 1
		34		358		1 10 14 25	40 55 85 50 32	18	l l l l l	1,5
		33		378	1 1 1 1 2	3 11 11 26	40 69 77 30	20 9 1 1	1 1 1 1 1	
		32		419	3 - 2 - 1	111 118 37	46 73 83 69 42	18	1 1 1 1 1	1 1
		31		515	11000	39 22 8 8 3	74 107 89 78 40	29	1 1 1 1 1	- 2
	14	30		29	161170	2 11 24 41	87 100 100 75 35	47 9 2 2		1 1
	Aoth	62	ES	590 5	= N n N =	2 8 8 4 4 9 6 4 4 9	99 1100 1100 1910 1910 1910 1910 1910 1	20 4 4	1 1 1 1 1	1 1
ı	Age of Mother	28	EMALES	869	1 2 1 1 1	3 13 63	95 63 1 96 36	98 18 1	1 1 1 1 1	1
ı	Age	27 2	표	734 6		- 6 10 26 71	104 145 140 114 74	23	1 1 1 1	1 4
		26 2		890 7	2 - 3 - 5	3 17 41 92	117 1 168 1 177 1 143 1	36	1 1 1 1 1	1 1
				913 8	18812	2 8 14 41 86	136 190 187 118 66	34	1 1 1 1 1	1 7
		25			3787					- 2
		24		1,057		4 111 488 99	166 223 206 158 84	27 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		23		1,102	11428	3 13 13 47 116	179 225 225 151 151	29 8 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1	ıκ
		22		1,008	15244	10 8 21 59 92	138 257 189 121 63	23 3 3 3 3 3	- 1   1	1 -
		21		1,054	28.120	6 10 27 27 50 107	167 228 186 146 75	27	1 1 1 1 1	2
		20		1,062	140704	13 16 16 55 111	176 251 195 121 64	21	1 1 1 1 1	12
		19		884	4.	18 17 17 82 82	135 205 180 110 56	14	1 1 1 1 1	i t
		8 1		199	03131	7 11 13 39 55	98 132 126 103 41	16	1 1 1 1 1	
		17		333	11211	39	52 64 74 42 21	0 1 - 1 1	1 1 1 1 1	ı —
		16		145	12111	16	21 22 19 10	8 1 1 1 1	1 1 1 1 1	1 1
		15		45	1 + 1 1 -	2 1 1 1 1 2	1122	1 1 - 1 1	1 1 1 1 1	1 1
		14		3	1 1 1 1 1	ed [ ] [ ] [	12111	t 1 1 1 1	1 1 1 1 1	1 1
		13		_	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1
		12			1 1 1 1 1	1 1 1 1 1	1 1 1 1	1 ( 1 1 1	1 1 1 1 1	1 1
		Total		15,009	11 34 38 38 55	79 156 272 683 1,389	2,160 3,077 2,912 2,161 1,150	487 167 79 24 24 10	2011-1	28
		Birthweight (grams)		Total	500 or less 501- 750 751-1000 1001-1250 1251-1500	1501-1750 1751-2000 2001-2250 2251-2500 2501-2750	2751-3000 3001-3250 3251-3500 3501-3750 3751-4000	4251-450 4251-450 4501-4750 4751-5000 5001-5250	5251-5500 5501-5750 5751-6000 6001-6250 6251-6500	6501 + Not stated

TABLE 36
MARRIAGES BY MONTH OF MARRIAGE
1967, ALBERTA

	TOTAL	12,903	
January	464	July	1,589
February	611	August	1,407
March	732	September	1,370
April	868	October	1,222
May	1,087	November	1,071
June	1,395	December	1,087

TABLE 7 ALBERTA HOSPITAL, EDMONTON DISCHARGES SHOWING DURATION OF RESIDENCE IN HOSPITAL

	Under	er 3 mos	38.	Under	6 mos.		Under	9 mos.		Under 12	12 mos.		Under ?	2 yrs.	6	Over 2 yrs.	yrs.		Total	_	T
DIAGNOSIS	M	[III	H	Z	Ĺų	H		(II	H	M	Įτι	Н	M	F	Z	山	H	_	M		F
General paralysis of the insane Syphilis of central nervous system Schizophrenia (all categories) Manic depressive (all categories)	196	- 171 56 21	367	1 46	- 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 110 8 3	255	20 4	1 1 2 2 1	1 1 00 10 1	1 10 1 1	1 18 1	1 18 1	1 1 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 3 2 2 2 2	1 1 4 1 4	26 4 4 4 8	315 27 50 6	273 67 26	- 1 117. 33.
Paranoia and paranoid states Senile psychosis Pre-senile psychosis Psychosis with cerebral arteriosclerosis Alcoholic psychosis	25 25 25 25	0 8 1 4 9	17 14 29 28	€4 1 N H	26 12 1	17:72			13.22	5 1 1 1	1 1 1 1 1	7 1 1 2	12122	1 1 1 1	10000	11141	1-111	1-1-1-1	112 13 3 3 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7	0 00030	452 254 25 33 33
Psychosis of other demonstrable etiology Other and unspecified psychoses Anxiety reaction Hysterical reaction Obsessive-compulsive reaction	13 12 12 1	120	22 24 24 8	1 1 5 3	-4	7 7 7 1 1 7 9 9 9								1 - 1 - 1 - 1		2	2	011	115	1 1 9550	30 29 10 10
Neurotic depressive reaction Psychoneurosis with somatic symptoms (somatization reaction) affecting circulatory system Other and unspecified psychoneurotic reactions Pathological personality (all categories)	51 108 33	57 16 20 20	108 25 149 53	20 11001	9 1222	11 6	w 1-w1	- 1	4 1241	1 1 1 1	m II-I	m 11 → 1	1 11-1	1 1 1 1			1 1-1-	- 1	60 11 122 34	2 2 2 4 4 8 8 2 4 4 8 8 5 4 4 8 8 5 4 4 8 8 6 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	12/ 34 170 58
Alcoholism without psychosis Other drug addiction Primary childhood behaviour disorders Mental deficiency without psychosis Other and unspecified disorders of character, behaviour and intelligence	465 2 11 14 24	81 13 23 23	546 3 24 37 45	3 2 2 3	2 2 1 1 1	24	0 1 1 1 0		10 1 2	2 : 1 : 1		W I I I	erle i	1 1 1 1 2	- I I - 2	1118 1	1 1 1 1	1 1 1 2 1	500 2 113 119 25	884 114 32 26	584 27 27 51
Paralysis agitans Epilepsy Pereperal psychosis Other diseases of brain Mental observation without need for psychiatric Care	111 2 2 2 2 2 9	. 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16 7 3 40	1-1-1	127	18991		10011	18818			1 1 1 1	1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1		1 1 1 1 1	1 1 1 1	30	12	20,02
Nervousness and debility Other non-psychiatric conditions	- 4	- 2	9	- 2	1 1	- 2	1 1	1 1	( 1	1 1	1 1	1 1	1 1	1 1	1 1		1 1	-+	7		1 .
TOTALS	1,095	609	1,704	118	117	235	51	36	87	19	.17	36	27	6	36	33	18	51   1,	343	806	2, 149

TABLE 8

ALBERTA HOSPITAL EDMONTON
DEATHS BY ABRIDGED INTERNATIONAL STATISTICS
CLASSIFICATION

TABLE 9
ALBERTA HOSPITAL, EDMONTON
DEATHS BY DIAGNOSIS

	Male	Female	Total
Malignant neoplasms, including Neoplasms of Lymphatic and Haematopoietic Tissues Vascular Lesions Affecting Central	6	4	10
Nervous System	8	1	9
Arteriosclerotic and Degenerative	_		
Heart Disease	7	4 3	11
Other Diseases of Heart	-	3	3
Pneumonia	14	10	24
Nephritis and Nephrosis	1	2	3
Senility Without Mention of Psychosis.			
Ill-defined and Unknown Causes	11	6	17
All Other Diseases	4	3	7
All Other Accidents, Including Burns	1	2	3
Suicide and Self-inflicted Injury,	-	~	O
Including Effects of Injuries	1		7
including Effects of Injuries	_		7
TOTAL	53	35	88

	Male	Female	Total
General Paralysis of the Insane	1		7
Schizophrenia (All Categories)	11	2	14
Manic Depressive (All Categories)	77	0	14
Involutional Melancholia	1	1	2
Paranoia and Paranoid States		1	1
Senilo Parchesia	1		1
Senile Psychosis	6	7	13
Pre-Senile Psychosis	2	1	3
Psychosis with Cerebral Arteriosclerosis	16	6	22
Alcoholic Psychosis	2	*****	2
Psychosis of Other Demonstrable Etiology	2	3	5
Other and Unspecified Psychoses	_	1	1
Neurotic Depressive Reaction	_	2	2
Psychoneurotic Disorders, Other, Mixed		1	4 7
Alcoholism Without Psychosis	1	7	7
Mental Deficiency Without Psychosis	1		7
	7	1	4
	1		1
Other Diseases of Brain	PRo-to	1	1
Senility	8	7	15
TOTAL	53	35	88
φ		-00	

TABLE 41 MARRIAGES, BIRTHPLACE OF GROOM BY BIRTHPLACE OF BRIDE, ALBERTA, 1967

									B	Birthplace	Jy Jy	Bride									
								Canada	T a							salal a			States		bəilis
Birthplace of groom	Total	Total	.bild.	P.E.I.	z v	N.B.	Que.	Ont.	Man. S	Sask,	Alta.	B,C.	Yukon	Z. W. T.	Prov. unspe- cified	faitir I seoT &	Europe	sizA	DatinU	Other	Onspec
Canada	10,656	9,807	21	19	88	41	101	350	349	1,163	7, 245	409	5	16	ı	336	384	15	100	12	2
Newfoundland	43	38	4	ı	2	~		~	1	1	21	4	,	1	1		4,	1	1	1	1
Prince Edward Island	97	25	1	1	ı	1	1	2	1	5	14	2	1	1	,	1	proof.	1	1	1	1
Nova Scotia	144	128	2	1	17	7	2	11	9	17	63	∞	1	ı	1	10	4	1	2	1	1
New Brunswick	53	51	ı	ı	-	3	4	П	9	9	30	ı	ı	1	1		ı	ı	_	1	,
Quebec	140	128	1	1		1	19	10	∞	11	74	5	1	ı	1	3	4	1	4,		1
Ontario	563	487	2	П	9	8	6	48	30	51	305	31	1	-	1	38	34	2	2	1	1
Manitoba	483	431	2	П	00	~	ıΩ	21	49	71	252	19		ı	,	20	23	-	∞	,	,
Saskatchewan	1,453	1,347	å	4	14	2	6	43	62	331	820	59	•	3	,	43	49	1	6	3	
Alberta	7, 225	6,713	10	10	36	24	49	194	169	629	5,336	242	ιΩ	6	1	198	233	9	99	∞	-
British Columbia	501	436	7	1	2	4	m	16	16	41	312	37	1	3	1	22	30	72	∞	ı	1
Yukon	9	ις.	1	1	-	1	ł	i	1	1	3	-	1	1	,	1	1	ı	1	ı	ı
Northwest Territories	19	18	1	t	1	ı	t	П	1	1	15	-	1	1	1	1	1	ı	1	- 1	1
Province unspecified	1	1	1		t	ı	1	1	1	1	1	ı	1	1	1	ı	1	ı	1	3	1
British Isles and Possessions	564	373	1	1	9	rc	2	25	13	48	248	21	1	1		125	48	00	10	1	1
Europe	1,211	673	1	1	6	23	9	30	24	75	481	39	1	3	,	55	453	ĸ	24	-	1
Asia	104	12	1	1	1	1	1	6	1	,	00	1	1	1	,	2	4	98	1	1	1
United States	347	232	1	1	-	1	1	9	6	25	184	2	1	1		13	10	ı	06	_	- (
Other	21	15	1	1	1	1	1	П	1	4	10	1	1	ŧ	,	1	2	1	1	3	
Unspecified	1	1	ı	ı	1	1	1	1	1	1	1	ı	1	1	ı	t	1	1	1	ı	,
TOTAL	12,903	11,112	23	20	104	49	114	415	395 1	1,315	8, 176	476	9	19	1	532	901	115	224	17	2

TABLE 42

MARRIAGES - RELIGIOUS DENOMINATION OF GROOM BY RELIGIOUS DENOMINATION OF BRIDE,
ALBERTA, 1967

Unspecified or unknown 0.0 Non-religious denominations 22146 18 17 1 United Church of Canada 38 1 09 22 13 4,032 0-1 Swedenborgians Spiritualists Society of Friends 200111 Salvation Army 2 - 2 - 2 - 2 - 1 79 - 1 - 24 52 22 15 4 1 1 1 227 4 341 113 3,202 Roman Catholics 1 1 10 -- 1 Reformed Churches (Christian) 1 1 1 1 2 11116 100 1 1 1 2 1 1 1 100 -- 1 201 3 90 2 Presbyterians Plymouth Brethren 1121 1 8 1 Pentecostal Assemblies 1 22 1 08 1 14 - 2 Oriental religions 1 2 - 9 -1 10 28 7,364 277 Isnoitsnimonab-noN 22 1 1 1 6 8 Religious denomination of Bride 15-1 stsibodtsM 19122 21115 91 7 7 50 34 969 170 666 1 29 29 - 8 - 8 - 9 06 42111 Lutherans 78 International Bible Students - 10 1 - 1 - 180 110 . . . . . 11 318 4 Holiness Movement 34 Greek Catholic Churches Cospel bodies 1 352 | 65 1414-231 2 1 1 1 1 12111 2111 Evangelicals 36 1 2 3 9 1 1 Eastern Orthodox Churches Donkhobors 1411 36 Church of God 14111 36 1911 Churches of Christ (Disciples) 0 1412 1 - 1 1 1 Christian Scientists 1 10 1 1 Christian Missionary Alliance 12 Christadelphians 42 Brethren including United . . . . 4 30 1215 33 1,378 21 370 39 - 1 - 1 4-125 32 24 24 3 1 1 9 1 1 Baptists Apostolic bodies 10 1 26 22 25 25 25 38 Anglicans 41111 1011 14 929 16 293 8 43 129 15 295 1 31 31 66 220 5 370 148 25 25 1 903 Total Christian Scientists Churches of Christ (Disciples) Christians Christian Missionary Alliance Church of God Doukhobors Eastern Orthodox Churches Evangelicals Gospel bodies oliness Movement iternational Bible Students ewish Unitarians
United Church of Canada
Other religious
Non-religious denominatio
Unspecified or unknown Anglicans Apostolic bodies Baptists Brethren including United Oriental religions Pentecostal Assemblies Plymouth Brethren Religious denomination of Groom Methodists Moravian Church Mormons Non-denominational OTAL BRIDES

## TABLE 43 STILLBIRTHS BY SEX AND PERIOD OF GESTATION, ALBERTA, 1967

PERIOD	OF GESTATION	MALE	FEMALE
20	weeks	3	5
21	weeks	2	2
22	weeks	9	3
23	weeks	3	2
24	weeks	7	5
	weeks	4	2
	weeks	4	6
	weeks	3	4
	weeks	12	6
29	weeks	4	2
	weeks	8	4
	weeks	9	8
	weeks	4	5
	weeks	7	7
34	weeks	10	6
	weeks	6	7
	weeks	11	13
	weeks	11	7
	weeks	16	10
39	weeks	16	8
	weeks	24	28
	weeks	3	9
	weeks	7	9
	weeks	1	3
44	weeks	2	-
	weeks	-	-
No	t Stated	2	1
То	tal 28 + weeks	147	133
То	tal 20 + weeks	193	164

TABLE 44
RATIO OF MALE TO FEMALE BIRTHS AND
OF BIRTHS TO DEATHS

Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths	Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths
1905 1906 1907 1908 1909 1910 1911 1912 1913	1,059 1,094 1 075 1,077 1,086 1,065 1,103 1,084	3.13 2.07 2.96 2.73 2.59 2.69 2.43 2.43 2.67	1936 1937 1938 1939 1940 1941 1942 1943	1,049 1,019 1,046 1,046 1,033 1,054 1,058 1,041	2.57 2.38 2.70 2.85 2.79 2.71 3.02 2.96 3.06
1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924	1,081 1,000 1,063 1,061 1,069 1,074 1,055 1,055 1,055 1,034 1,072 1,036	3.30 3.74 3.29 3.25 1.88 2.56 2.92 3.32 3.06 3.13 2.97	1945 1946 1947 1948 1949 1950 1951 1952 1953 1954	1,061 1,036 1,061 1,049 1,051 1,052 1,039 1,058 1,063 1,073	3.08 3.36 3.76 3.44 3.52 3.74 3.76 3.95 4.10 4.60 4.31
1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935	1,036 1,053 1,065 1,064 1,042 1,027 1,075 1,052 1,053 1,032 1,055	2.97 2.80 2.94 2.75 2.71 3.21 3.25 3.08 3.01 3.04 2.81	1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966	1,060 1,055 1,064 1,056 1,056 1,045 1,039 1,056 1,048 1,074 1,035 1,044	4.48 4.32 4.47 4.49 4.38 4.39 4.18 4.07 3.81 3.42 3.16 3.22

TABLE 45
DIVORCES AND NULLITIES, BY JUDICIAL DISTRICTS FOR
FOR THE YEAR, 1967, ALBERTA

	DIVORCES			NULLITIES				
JUDICIAL DISTRICTS	Number of Divorces	Granted to Husband	Granted to Wife	Number of Nullities	Granted to Husband	Granted to Wife		
Edmonton	801	301	500	5	2	3		
Calgary	718	233	485	15	4	11		
Lethbridge	78	30	48 -		-	-		
Medicine Hat	35	15	20 -		-	-		
Peace River	7	4	3	1	1	-		
Grande Prairie	14	11	3	-	-	-		
Hanna	4	2	2	-	-	-		
Red Deer	62	21	41	-	-	-		
Drumheller	6	2	4	-	-	-		
Fort Macleod	3	1	2	-	-	-		
Wetaskiwin	7	3	4	-	-	-		
Vegreville	1	-	1	-	-	-		
TOTAL	1,736	623	1,113	21	7	14		

TABLE 46
DIVORCES AND NULLITIES IN ALBERTA SINCE
THE PASSING OF THE ACT

-		1					
Year	Granted to Husband	Granted to Wife	Total	Year	Granted to Husband	to	Total
1919	3	3	6	1944	245	243	488
1920	74	26	100	1945	302	273	575
1921	53	37	90	1946	494	480	974
1922	80	49	129	1947	404	478	882
1923	57	32	89	1948	302	357	659
1924	66	53	119	1949	262	332	594
1925	9	42	101	1950	249	311	560
1926	79	75	154	1951	255	334	589
1927	83	66	149	1952	239	391	630
1928	91	84	175	1953	228	375	603
1929	77	71	148	1954	224	384	608
1930	64	87	151	1955	233	394	627
1931	69	87	156	1956	278	410	688
1932	68	81	149	1957	317	409	726
1933	56	79	135	1958	295	457	752
1934	62	106	168	1959	343	509	852
1935	74	135	209	1960	399	566	965
1936	74	135	209	1961	381	675	1,056
1937	102	139	241	1962	411	690	1,101
1938	105	162	267	1963	513	769	1,282
1939 1940 1941 1942 1943	104 119 135 179 190	163 154 176 201 223	267 273 311 380 413	1964 1965 1966 1967	504 474 539 630	896 888 1,028 1,127	1,400 1,362 1,567 1,757

 $\mbox{TABLE 47}$  POPULATION, BIRTHS, MARRIAGES, DEATHS AND RATES FOR THE YEARS 1905 - 1967

						_				
Year	Population	Number of Births	Birth Rate	Number of Marriages	Marriage Rate	Number of Deaths	Death Rate	Infantile Death Rate per 1,000 Births	Maternal Death Rate per 10,000 Births	Natural Increase
1905 1906 1907 1908 1909	- 185,000 236,000 266,000 301,000	421 3,003 4,732 5,973 6,897	20.41 20.05 22.45 22.91	187 927 1,907 2,032 2,384	6.77 8.08 7.63 7.92	114 1,091 1,578 2,188 2,662	7.36 6.68 8.22 8.81	90.00 100.27 126.57	- 63.3 60.2	13.04 13.36 14.22 14.07
1910	336,000	8,321	24.49	3,086	9.18	3,526	10.49	129.49	86.3	14.00
1911	374,000	8,813	23.56	3,630	9.70	3,618	9.67	134.46	97.5	13.88
1912	400,000	10,284	25.71	4,429	11.07	4,232	10.58	124.75	82.6	15.13
1913	429,000	11,871	28.47	5,053	12.12	4,432	10.63	120.47	79.7	17.84
1914	459,000	13,685	30.75	4,623	10.39	4,417	9.32	100.54	61.3	21.43
1915 1916 1917 1918 1919	480,000 496,000 508,000 522,000	13,452 13,331 13,576 14,890 14,130	28.90 27.87 27.01 25.72 23.95	4,202 4,230 4,270 4,048 4,718	9.06 8.53 8.54 6.98 7.90	3,588 4,058 4,047 7,924 5,507	7.73 8.18 8.09 13.86 9.33	87.9 90.5 87.30 107.10 110.30	57.9 72.0 64.8 55.1 64.4	21.26 18.69 18.92 11.86 14.62
1920	565,000	16,565	26.72	5,110	8.24	5,675	9.15	93.70	83.8	17.57
1921	588,000	16,414	27.89	4,661	7.92	4,940	8.39	85.65	72.4	19.50
1922	592,000	16,163	26.44	4,272	6.99	5,281	8.62	91.93	66.8	17.83
1923	593,000	15,153	25.75	4,177	6.09	4,843	8.06	90.54	55.0	18.75
1924	597,000	14,598	24.74	4,160	7.50	4,907	8.30	82.40	61.8	16.42
1925	602,000	15,014	25.02	4,363	7.27	4,717	7.86	72.90	57.6	16.16
1926	608,000	14,455	23.79	4,498	7.40	5,156	8.49	81.63	58.2	15.31
1927	623,000	14,897	24.03	4,707	7.58	5,059	8.16	74.51	63.8	15.87
1928	658,000	15,692	24.79	5,776	9.12	5,699	9.00	76.50	67.5	15.79
1929	684,000	16,924	26.19	6,004	9.29	6,239	9.65	77.40	72.6	16.54
1930	708,000	17,649	26.74	5,334	8.08	5,396	8.33	63,57	64.6	18.41
1931	732,000	17,252	23.57	5,142	7.02	5,302	7.24	69.38	50.4	16.32
1932	740,000	16,990	22.96	5,054	6.83	5,521	7.46	58.68	37.7	15.50
1933	748,000	16,123	21.33	5,389	7.10	5,346	7.07	59.90	45.3	14.24
1934	756,000	16,236	21.10	6,053	7.87	5,337	6.93	54.89	49.9	14.01
1935	770,000	16,183	21.0	6,010	7.7	5,729	7.3	57.8	42.6	14.0
1936	772,782	15,786	20.4	6,020	7.8	6,147	8.0	60.0	57.6	12.5
1937	778,000	15,903	20.4	6,345	8.2	6,261	8.0	63.0	48.4	12.4
1938	783,000	15,891	20.3	6,993	8.9	5,871	7.5	51.0	42.8	12.8
1939	789,000	16,470	20.9	7,838	9.9	5,789	7.3	46.0	35.8	13.6
1940	790,000	17,359	21.8	8,782	11.0	6,203	7.8	48.0	39.7	14.1
1941	796,169	17,308	21.7	8,470	10.7	6,385	8.0	51.0	31.2	13.7
1942	805,000	18,317	22.7	9,034	11.2	6,091	7.5	38.0	23.5	15.2
1943	792,000	19,290	24.3	7,771	9.8	7,345	7.6	30.0	27.0	22.4
1944	818,000	19,373	23.7	7,299	8.9	6,524	8.2	42.0	16.0	16.1
1945	826,000	19,939	24.1	7,310	8.8	6,320	7.7	46.0	24.1	16.0
1946	803,330	22,184	27.6	9,478	11.8	6,454	7.8	43.0	14.4	16.2
1947	822,000	24,631	30.0	8,797	10.7	6,601	8.2	42.5	8.9	19.3
1948	846,000	24,075	28.5	8,844	10.5	6,543	8.0	37.0	12.0	22.0
1949	871,000	24,935	28.7	9,037	10.4	6,987	8.0	39.0	10.0	20.2
1950	895,000	25,625	28.7	9,294	10.4	7,083	8.2	33.0	7.4	20.5
1951	939,501	27,003	28.7	9,305	9.9	6,856	7.7	32.0	5.6	21.0
1952	970,000	29,105	30.0	9,514	9.8	7,646	7.6	30.0	5.2	23.7
1953	1,002,000	31,376	31.3	10,126	10.1	7,167	7.6	30.0	6.7	21.1
1954	1,039,000	33,593	32.3	9,960	9.6	7,520	7.2	26.0	3.3	22.3
1955	1,066,000	34,357	32.2	9,844	9.2	7,956	7.5	26.0	4.4	23.1
1956	1,123,116	34,951	31.1	9,965	8.9	7,786	6.9	25.0	4.0	24.2
1957	1,160,000	35,719	30.8	10,117	8.7	8,255	7.1	27.0	3.4	23.7
1958	1,201,000	36,842	30.7	10,186	8.5	8,237	6.9	25.0	4.6	23.8
1959	1,243,000	38,080	30.6	10,402	8.4	8,481	6.8	24.0	3.7	23.8
1960	1,283,000	39,009	30.4	10,482	8.2	8,888	6.9	26.2	1.8	23.5
1961	1,331,944	38,914	29.2	10,474	7.9	8,863	6.7	27.0	2.3	22.5
1962	1,370,000	38,804	28.3	10,423	7.6	9,264	6.8	25.0	4.1	21.5
1963	1,405,000	38,467	27.4	10,163	7.2	9,444	6.7	23.6	2.9	20.7
1964	1,432,000	36,173	25.3	10,634	7.4	9,482	6.6	23.9	2.2	18.7
1965	1,451,000	32,664	22.5	11,029	7.6	9,534	6.6	24.0	1.2	15.9
1966	1,463,203	30,592	20.9	11,879	8.1	9,677	6.6	20.9	2.0	14.3
1967	1,490,000	30,691	20.6	12,903	8.7	9,523	6.4	20.0	1.6	14.2



